





8		7		6		5		4		3		2		1					
GENERAL NOTES:  THIS DRAWING SHOWS THE STRUCTURAL ARRANGEMENT, DETAILS AND MATERIALS FOR THE CONSTRUCTION OF AN ALUMINUM MAIN MAST TO REPLACE THE EXISTING STEEL MAST.  1. EQUIPMENT MOUNTED ON THE EXISTING MAST IS TO BE REMOVED AND DISPOSED OF OR STORED PER DIRECTION OF THE NOAA REPRESENTATIVE.  2. ALL NEW PIPE SECTIONS IN THIS PLAN ARE SCHEDULE 40.  3. ALL WELDING TO BE IN ACCORDANCE WITH ABS RULES FOR ALUMINUM VESSELS, 1975, (WITH ALL UPDATES TO 2006) EXCEPT WHERE NOTED OTHERWISE.  4. ALL JOINT CUTTING, PREPARATION AND CLEANING TO BE STRICTLY CARRIED OUT AS FOLLOWS:  A. ALL CUTTING AND PREPARATION OF EDGES TO BE WELDED TO BE MADE WITH A CLEAN COARSE-TOOTH SAW OR CUTTER OR MANUALLY WITH A CLEAN COARSE FILE. DO NOT GRIND WITH CORUNDUM OR RESIN WHEELS. DO NOT CARBON ARC.  B. CUTTING IS TO BE CARRIED OUT WITH APPROPRIATE FEED RATES. EXCESSIVE HEATING OF THE CUT EDGE IS TO BE PREVENTED.  C. NICKS, GOUGES, OR OTHER CRACK-LIKE DEFECTS ARE NOT PERMITTED.  D. EDGES TO BE WELDED AND ADJACENT SURFACES ARE TO BE DEGREASED WITH A NON-CHLORINATED SOLVENT. AFTER DEGREASING, THE EDGES AND ADJACENT SURFACES EQUAL TO THE HAZ MUST BE BRUSHED WITH A CLEAN STAINLESS STEEL ROTARY OR HAND WIRE BRUSH TO REMOVE THE OXIDE LAYER. BRUSH OPERATOR MUST WEAR CLEAN RUBBER GLOVES. WELDING MUST NOT TAKE PLACE ON A BRUSHED JOINT THAT IS OLDER THAN 12 HOURS. JUST PRIOR TO WELDING, AN OXY-ACETYLENE TORCH SHOULD BE USED TO PREHEAT THE JOINT ABOVE THE DEW POINT BUT NO MORE THAN 40 DEGREES CENTIGRADE.  E. CLEARANCE BETWEEN WORKPIECES TO BE JOINED SHALL MEET ABS REQUIREMENTS PER REFERENCE (2) OR SHALL BE LESS THAN ONE QUARTER THE THICKNESS OF THE SMALLER MEMBER BEING JOINED.  5. MIG AND TIG WELDING ARE PERMITTED.  6. SOOT DEPOSITS ON THE WORKPIECES LEFT BY THE WELDING ARE TO BE BRUSHED OFF WITH A STAINLESS STEEL WIRE BRUSH.  7. THE MAST IS TO BE BUILT WITH THE OVERALL HEIGHTS AND PLATFORM DIMENSIONS AS SHOWN ON THIS PLAN. THE SPACING BETWEEN THE MAIN LEGS WHERE THEY JOIN THE DECK IS TO BE CONFIRMED BY SURVEYING THE EXISTING MAST.  8. THE EXISTING STEEL MAST IS TO BE ROUGH-CROPPED AT A HEIGHT OF APPROXIMATELY 30" ABOVE THE DECK (THE UPPER PORTION OF THE 02 DECK, AFT OF THE 12" STEP).  9. AFTER SHOP FABRICATION OF THE MAST, THE EXISTING LEGS ARE TO BE EITHER CROPPED BACK TO 24" OR CROPPED TO THE DECK, AS SHOWN ON THIS PLAN. IN THE CASE OF MISALIGNMENT OF THE FORWARD LEGS AND THE EXISTING LEG STUBS, THE STUBS ARE TO BE REMOVED DOWN TO DECK LEVEL AND REPLACED WITH EQUIVALENT TO EXISTING SCANTLINGS. SHEET 7 SHOWS THE EXISTING SCANTLINGS FOR REFERENCE.  11. BOLTING OF THE MAST CONNECTION FLANGES:  HOLES IN FLANGES ARE TO BE FITTED TO THE BOLTS TO A LIGHT INTERFERENCE FIT.  THREADS AND FAYING SURFACES OF NUTS BOLTS AND WASHERS TO BE COATED WITH A LOC-TITE MEDIUM STRENGTH THREAD SEALANT BEFORE ASSEMBLY.  NUTS ARE TO BE TORQUED TO 5,000 INCH-LBS, NOT INCLUDING ANY PREVAILING TORQUE CAUSED BY THREAD FRICTION.  11. WIREWAYS ARE TO BE INSTALLED IN ACCORDANCE WITH REFERENCE (1). ROUTING OF THE WIREWAYS TO BE TO THE SATISFACTION OF THE NOAA REPRESENTATIVE.  12. ALL FIBERGRATE DECKING TO BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND WITH STAINLESS STEEL HARDWARE (FIBERGRATE TYPE M HOLD DOWN CLIPS OR AS RECOMMENDED BY MANUFACTURER).  13. SURFACE PREPARATION AND COATING TO BE IN ACCORDANCE WITH REFERENCE (1).						LIST OF MATERIALS						REVISIONS							
						PC NO	QTY	DESCRIPTION	MATERIAL	MATERIAL SPEC - GRADE	REMARKS	REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD	
						B	1	180 LF	8" SCH 40 PIPE	ALUMINUM	ALLOY 5083-H116 OR 6061-T6	LEGS AND DIAGONALS -	A	1	-	-	ADDED NOTES: FIBERGRATE CLIPS, DESIGN CRITERIA & LADDER SPEC.	10/27/06	JAH
						B	2	65 LF	6" SCH 40 PIPE	ALUMINUM	ALLOY 5083-H116 OR 6061-T6	CROSS BAR -		2	10-A	-	ADDED LADDER NOTES		
						B	3	50 LF	4" SCH 40 PIPE	ALUMINUM	ALLOY 6061-T6	ANGLED BRACKETS AT TOP -		3	22-A	-	ADDED HALYARD PADEYES, & PLTFM DIMS.		
							4	10 LF	3" SCH 40 PIPE	ALUMINUM	ALLOY 6061-T6	CENTER LIGHT MAST -		4	25-C	-	ADDED CLIMBING RUNG DETAILS		
							5	35 LF	2-1/2" SCH 40 PIPE	ALUMINUM	ALLOY 6061-T6	SMALL LIGHT MASTS HANDRAIL DIAGONALS		5	36-C	-	ADDED HANDRAIL STANCHION DETAILS		
							6	90 LF	2" SCH 40 PIPE	ALUMINUM	ALLOY 6061-T6	HANDRAIL STANTIONS LIGHT MAST DIAGONALS			34-A	-	NOTED STANCHION ATTACHMENT OPTIONS TO OUTSIDE OF PLATFORM		
							7	90 LF	1-1/2" SCH 40 PIPE	ALUMINUM	ALLOY 6061-T6	TOP HANDRAIL -			39-B	-	DESCRIBED LADDERWAY OPENING		
							8	190 LF	1" SCH 40 PIPE	ALUMINUM	ALLOY 6061-T6	BOTTOM HANDRAILS SMALL LIGHT MASTS DIAGS	B	1	5-D	-	REVISED BOM	02/28/08	
							9	55 SF	1/2" PLATE	ALUMINUM	ALLOY 5083-H116	UPPER PLATFORM TOP PLATE -		2	11-C	-	ADJUSTED MAST LIGHT STAYS		
							10	55 SF	3/8" PLATE	ALUMINUM	ALLOY 5083-H116	UPPER PLATFORM BOTTOM PLATE -		4	28-B	-	REMOVED UPPER MASTHEAD LIGHT MAST		
							11	120 LF	4" X 3/8" FB	ALUMINUM	ALLOY 5083-H116	WALKWAY CIRCLE FLANGE DECK GRATE LANDINGS			28-C	-	MOVED LIGHTS		
							12	90 LF	12" X 3/8" FB	ALUMINUM	ALLOY 5083-H116	UPPER PLATFORM WEBS WALKWAY CIRCLE WEB			30-B	-			
							13	80 LF	8" X 4" X .188" RECT TUBE	ALUMINUM	ALLOY 6061-T6	UPPER PLATFORM OVERHANG LOWER PLATFORM HORIZ		5	34-B	-	MOVED LIGHTS		
							14	50 LF	3" X 1.5" X .188" RECT TUBE	ALUMINUM	ALLOY 6061-T6	PLATFORM GRATING SUPPORT -			39-A	-			
	15	6 SF	1.5" PLATE	ALUMINUM	ALLOY 5083-H116	CONNECTION FLANGES -	39-B	-											
	16	6 SF	1.5" PLATE	MILD STEEL	ABS GRADE D	CONNECTION FLANGES -	8&9		-	ADDED DIAMOND RIG AND WELDING DETAILS									
	17	10 SF	3/8" PLATE	MILD STEEL	ASTM A-36 GRADE B	CONNECTION BRACKETS -													
	18	1 PC	8" TO 16" SCH 40 BUTT WELD REDUCER	MILD STEEL	EQ TO A-53 GRB PIPE	EXISTING MAST TRANSITION -													
	19	6 LF	8" SCH 40 PIPE	MILD STEEL	ASTM A-53 GRB	CONNECTION TO DECK LEGS -													
	20	200 SF	DECK GRATING (FIBERGRATE)	COMPOSITE	RIGIDEX 1-1/2"	DECK GRATING -													
	21	2 LF	2-1/2" X 3/8" FB	316L		LADDER CLIPS -													
	22	6 SF	1/8" SHEET	316L	-	FLANGE GASKETS -													
A	23	29 LF	LADDER	ALLOY 5083-H116	ASTM F840-83	LADDER MOD WITH HEAVY RUNNERS	B												
	24	30 PC	1-1/4"-12UNF THREAD CLASS 2A BOLTS	316L	B8M CLASS 2 65 KSI YIELD	FLANGE BOLTS -													
	25	30 PC	1-1/4" 12UNF CLASS 2B NUTS	316L	B8M CLASS 2 65 KSI YIELD	FLANGE NUTS -													
	26	60 PC	1-1/4" TYPE B-WIDE WASHERS		316L	FLANGE WASHERS -													
	27	2 PC	1/2" BOLTS		316L	LADDER CLIP BOLTS -													
	28	2 PC	1/2" NUTS	STAINLESS STEEL	316L	LADDER CLIP NUTS -													
	29	6 PC	1/2" WASHERS	STAINLESS STEEL	316L	LADDER CLIP WASHERS -													
	30	A/R LF	4" X 2" X 0.25" RECTANGULAR TUBING	ALUMINUM	ALLOY 6061-T6	PLATFORM GRATING SUPPORT -													
B	31	1 -	SEA TEL C-BAND VSAT RADOME & EQUIPT	-	-	GOV'T FURNISHED EQUIP LOWER PLATFORM HORIZ													
A	32	4 -	2" X 3/8" RINGS	ALLOY 5083-H116	-	HALYARD STAPLES													
B	33	200 LF	1/4" 1X19 SS RIGGING WIRE ROPE	STAINLESS STEEL	-	RIGGING FOR LIGHT MAST	A												
B	34	7 PC	JAW & JAW TURNBUCKLE FOR PC 33 HANES SUPPLY, INC. #S0108-JJ16	STAINLESS STEEL	-	RIGGING FOR LIGHT MAST													
B	35	7 PC	SWAGELESS FORK TERMINAL FOR PC 33 HANES SUPPLY, INC. #N020-0816	STAINLESS STEEL	-	RIGGING FOR LIGHT MAST													
B	36	7 PC	SWAGELESS EYE TERMINAL FOR PC 33 HANES SUPPLY, INC. #N010-0816	STAINLESS STEEL	-	RIGGING FOR LIGHT MAST													
B	37	28 LF	CLIMBING SAF-T-RAIL	ST STEEL	316L	FOR LIGHT MAST													
B	38	2 LF	3/4" SS ROD	ST STEEL	316L	LIGHT MAST BASE													
B	39	3 SF	1/4" PLATE	ALUMINUM	ALLOY 5083-H116	LIGHT MAST SPREADER BRKT													
DESIGN CRITERIA: A. 90 KNOT WIND IN ANY DIRECTION WITH CD=1 B. ROLL TO +/-45' C. PERIOD OF ROLL 11 SEC D. PITCH +/- 7.1' E. PERIOD OF PITCH 4.4 SEC F. HEAVE ACCELERATION: 1/400 ACCELERATION OF GRAVITY  ON TOP OF THE LOADS DEVELOPED FROM THE ABOVE CRITERIA,  G. SAFETY FACTOR=2.5 APPLIED ON AS-WELDED YIELD STRENGTH. H. FEM OVERALL VIBRATION ANALYSIS I. INDIVIDUAL TUBES DESIGNED TO HAVE FREQUENCY ABOVE 24 HZ.  ROLL, PITCH, HEAVE WERE ADDED IN PHASE FOR "WORST CASE," WITH HEAVE ADDED VECTORALLY TO VESSEL AT MAXIMUM PITCH/HEAVE ANGLE.  WIND WAS ADDED TO DYNAMIC LOAD WITHOUT REDUCTION OF EFFECTIVE AREA DUE TO HEEL. HORIZONTAL PLATFORM AREA WAS ASSUMED SOLID AND THE PROJECTED AREA AT 45' WAS USED. ALL PIPES ASSUMED 100% EXPOSED TO WIND.						REFERENCES													
NO		TITLE								DRAWING NO									
1		NOAA SHIPYARD SPECIFICATION SEPTEMBER 2006								-									
2		ABS RULES FOR ALUMINUM VESSELS, 1975, WITH UPDATES TO 2006																	
3		SCANTLINGS FCSLE DECK & ABOVE								6233545									
4		INSTALL & OP MAN SEA TEL 9797A-22 C-BAND								123213									
5		-																	
<div>STRUCTURAL</div> <div>08-W-312, 24 JUN 2008 ABS Washington DC OPN: 1645191 TASK: 351214</div>										<div>APPROVED</div> <div>This approval covers only ABS requirements and does not include items not required by ABS. See comments in ABS letter</div> <div></div>									
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OFFICE OF MARINE & AVIATION OPERATIONS																			
<div> Seaworthy Systems, Inc. P.O. BOX 965 BROOKFIELD, CT 06408 TEL: (860) 767-9061</div> <div>CONTRACT # AB133M-05-CQ-1043 TAR-SSI-008</div> <div>DSGN WRP 09/13/06 DWN WRP 9/13/06 CHK JAH 9/13/06 CHK WAW 9/13/06</div>										NOAA SHIP OSCAR ELTON SETTE NEW MAINMAST FOR VSAT RADOME AND NAVIGATION LIGHTS									
-										SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV						
NOAA APPROVAL										D OYLIJ5		OS-171-001	B						
										SCALE: AS SHOWN		CAD FILENAME	05-171-001 SHT 1 OF 9						

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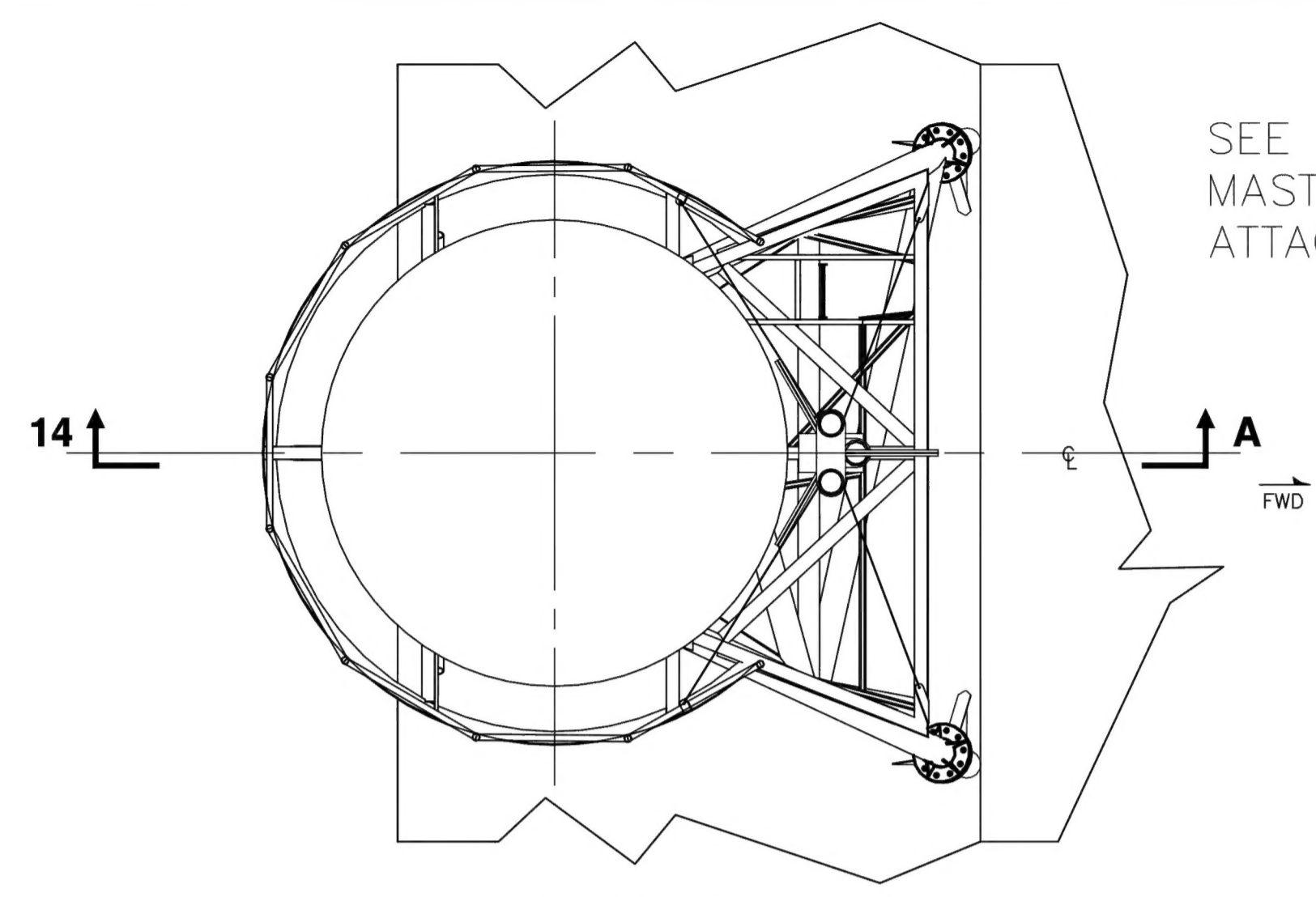
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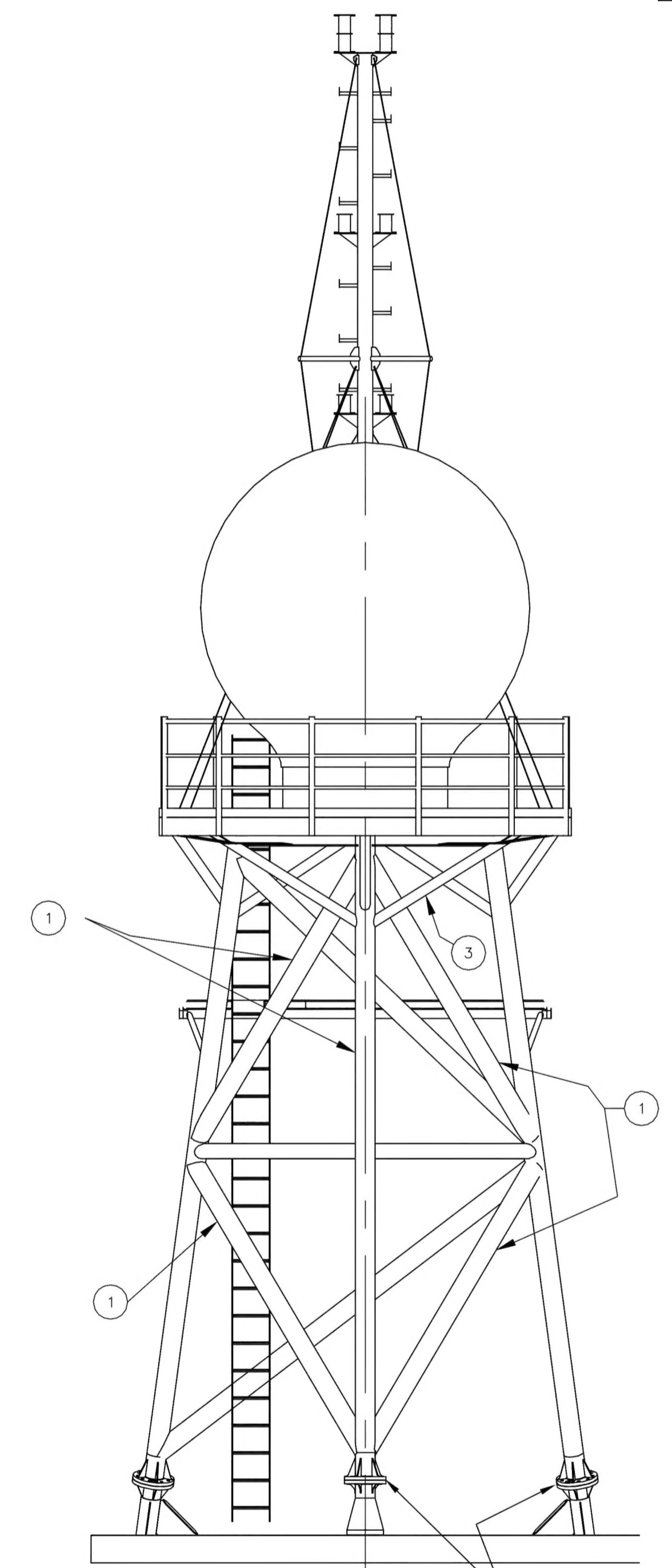
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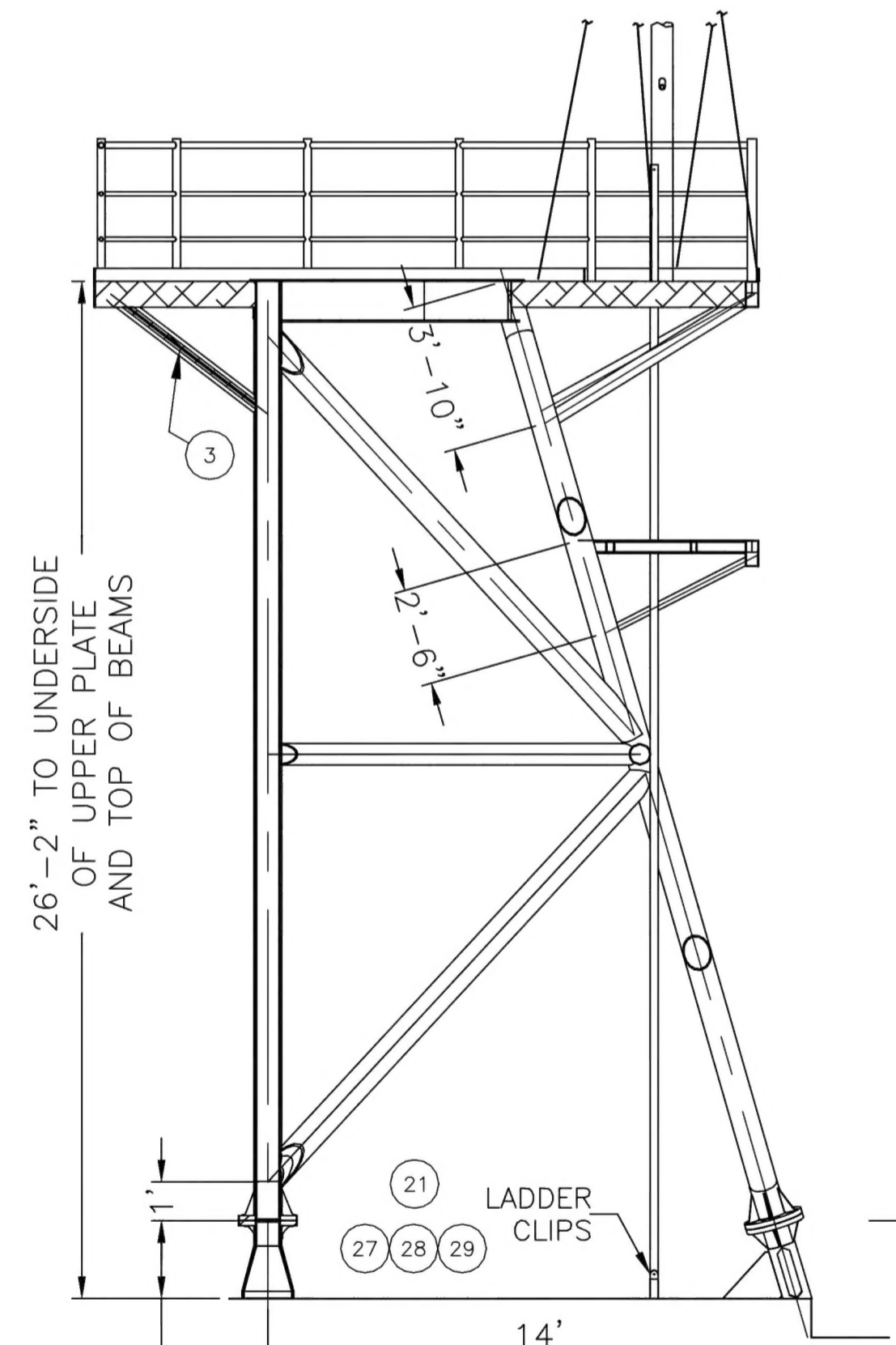


SEE DETAIL 60-B FOR  
MAST LIGHT AFT STAY  
ATTACHMENT POINT

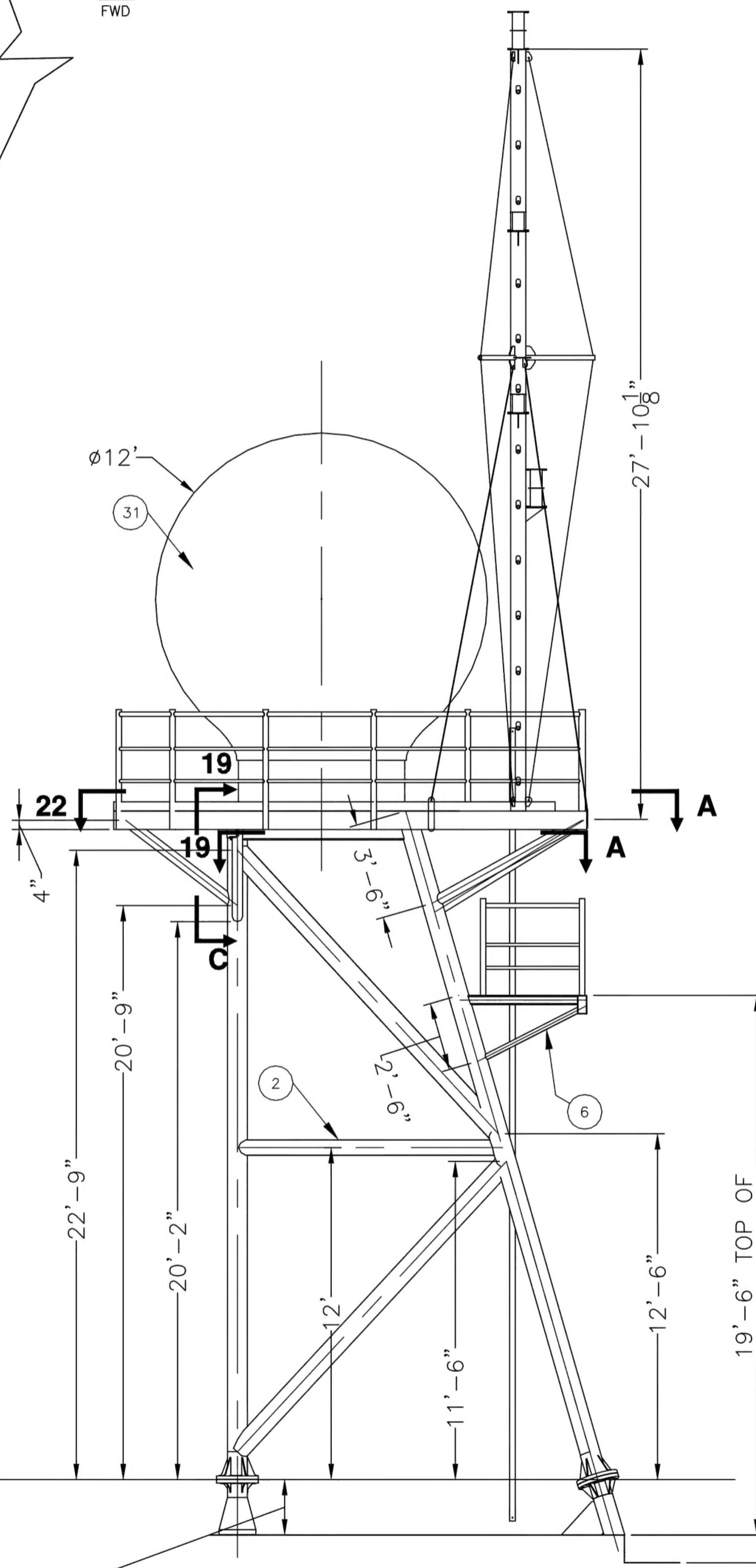
**DETAIL 12-D**  
MAST ASSEMBLY PLAN VIEW  
SCALE: 1/4" IN = 1 FT



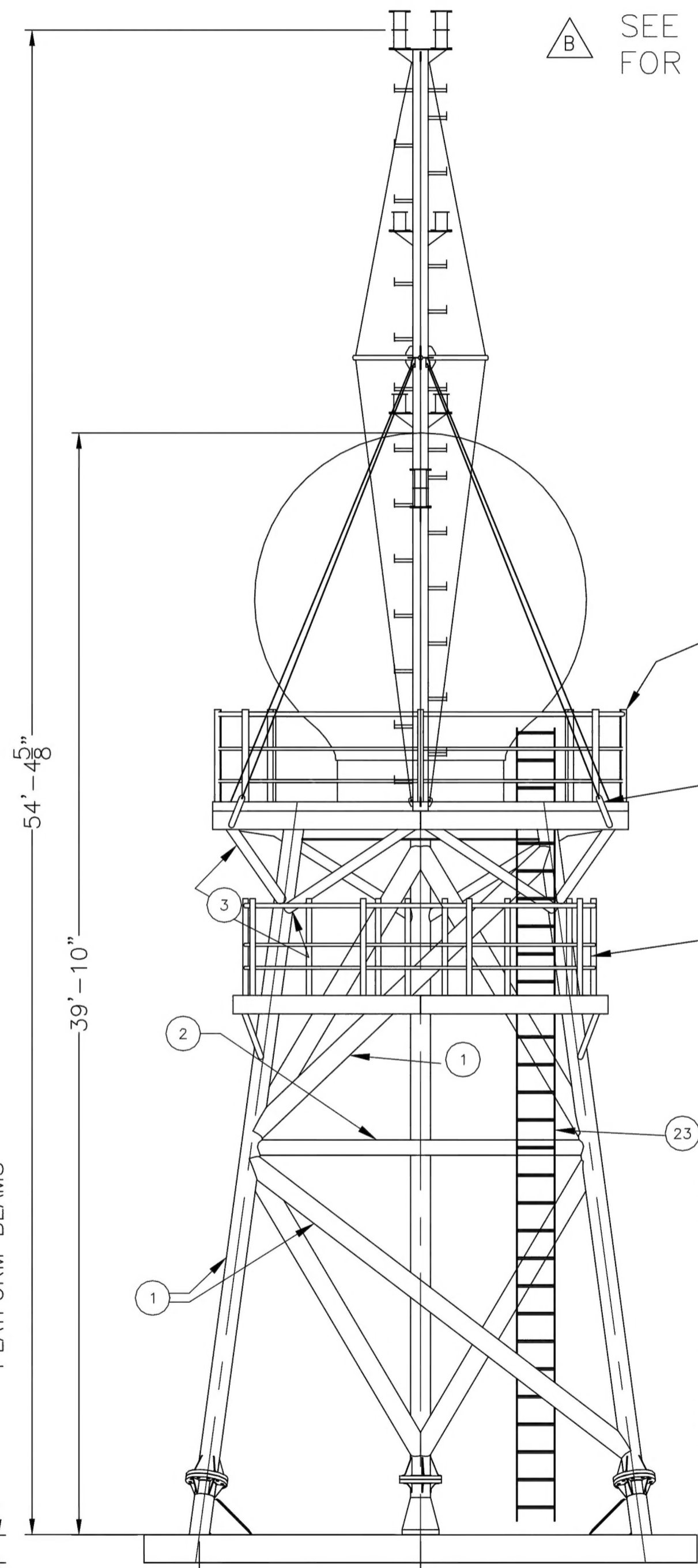
**SECTION VIEW 15-A**  
MAST ASSEMBLY (LKG FWD TO FR 59)  
SCALE: 1/4 IN = 1 FT



**LONGITUDINAL SECTION 14-A**  
THROUGH CENTERLINE LKG PORT  
SCALE: 1/4 IN = 1 FT



**ELEVATION 12-A**  
MAST ASSEMBLY LKG TO PORT  
SCALE: 1/4 IN = 1 FT



**SECTION VIEW 10-A**  
MAST ASSEMBLY (FR 52 LKG AFT)  
SCALE: 1/4 IN = 1 FT

SEE DETAIL 63-A  
FOR LIGHT DIAMOND RIG

UPPER PLATFORM  
HANDRAIL DETAILS  
SEE 39-A &  
39-B

SEE DETAIL 60-B FOR  
STAY ATTACHMENT

LOWER PLATFORM  
AND HANDRAIL  
DETAILS SEE 34-A  
& 34-B

LADDER TO ASTM SPEC F840-83, FABRICATED  
FROM 5083-H116 AL. THIRD RAIL CLIMBING  
SYSTEM TO BE INSTALLED AND SUITABLY  
SUPPORTED TO THE SATISFACTION AND APPROVAL  
OF NOAA REPRESENTATIVE.

RAILS BETWEEN 02 DECK AND 1ST SUPPORT TO  
BE 4 X 1/2" FB.

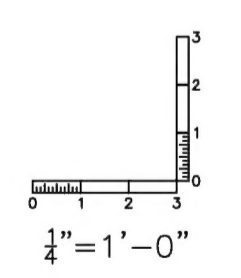
LADDER TO BE SUPPORTED BY 4" X 3/8" FB  
CLIPS AT DIAGONAL BRACES, TRANSVERSE BRACE,  
LOWER PLATFORM LEVEL AND UPPER PLATFORM  
LEVEL.

LADDER TO EXTEND 36" ABOVE UPPER PLATFORM,  
AND RAIL TO EXTEND 42" ABOVE PLATFORM  
FINISHED SURFACE.

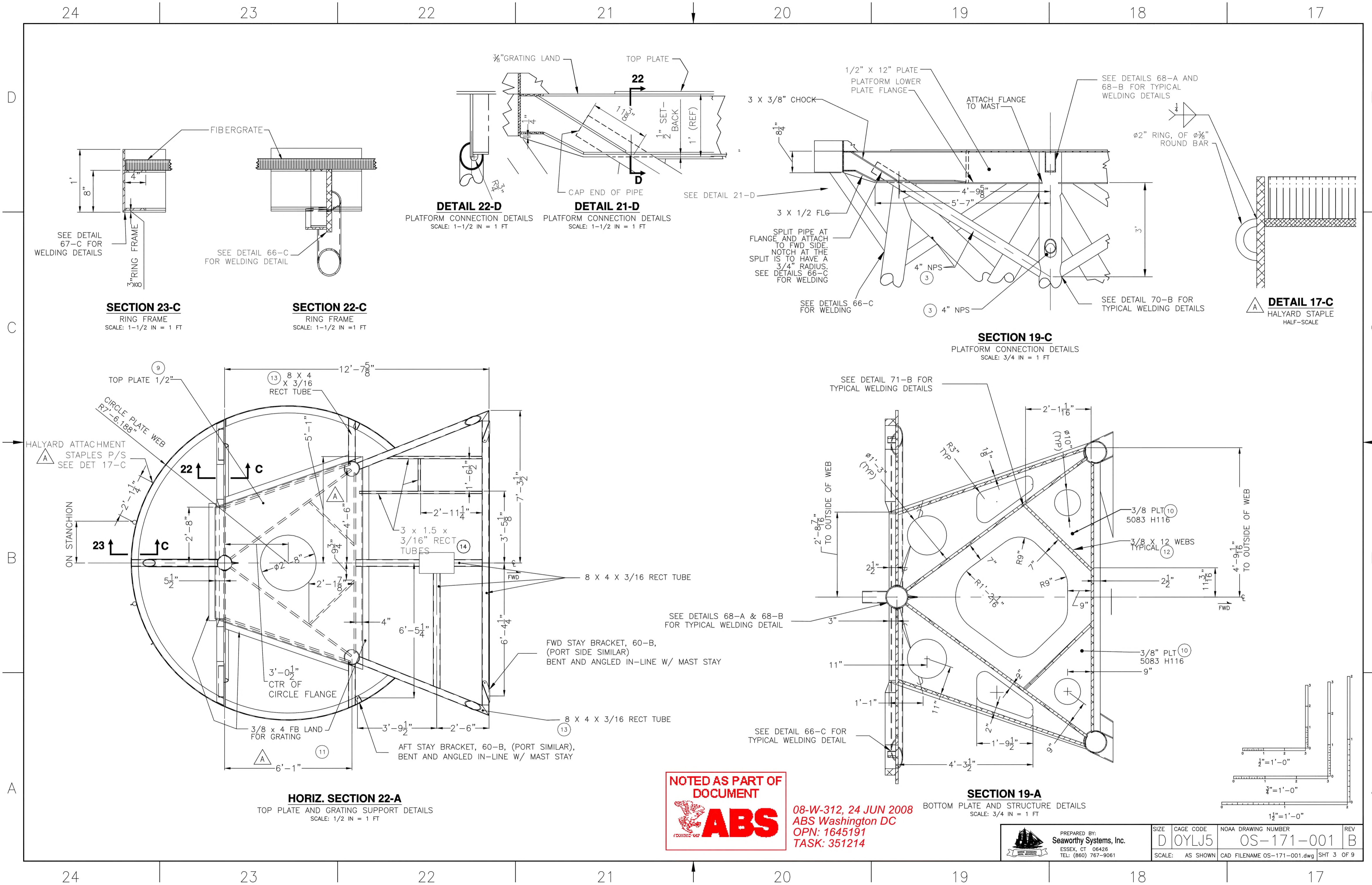
LADDER BOTTOM TO BE SUPPORTED AT DECK W/  
4x8" ST.ST. F.B., 1/2" ST.ST. BOLTS



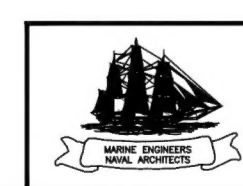
08-W-312, 24 JUN 2008  
ABS Washington DC  
OPN: 1645191  
TASK: 351214



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08-W-312, 24 JUN 2008  
ABS Washington DC  
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TASK: 351214



PREPARED BY:  
Seaworthy Systems, Inc.  
ESSEX, CT 06426  
TEL: (860) 767-9061

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
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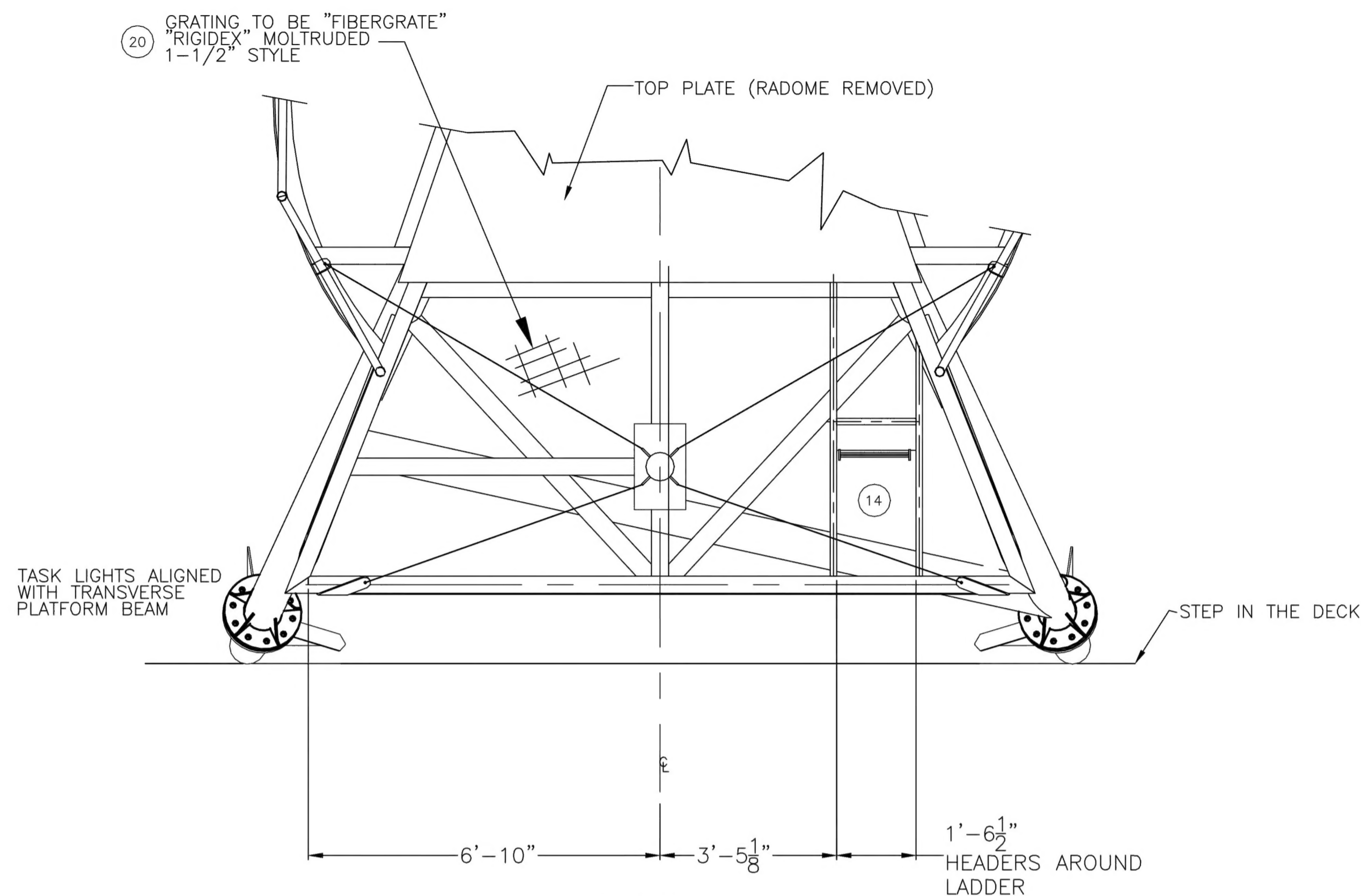
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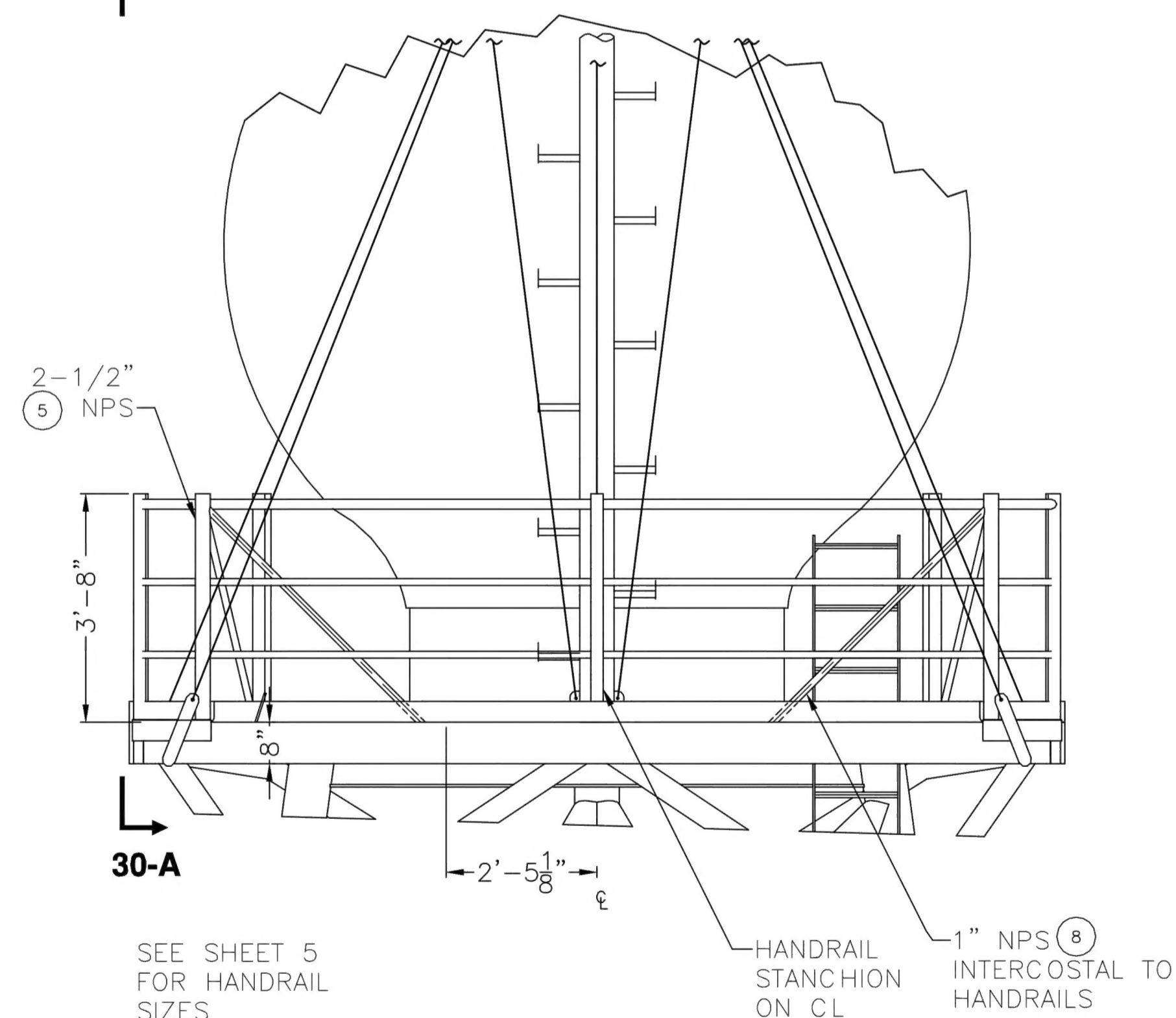
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**DETAIL 28-C**

MAST LIGHT PLAN VIEW  
SCALE: 1/2 IN = 1 FT

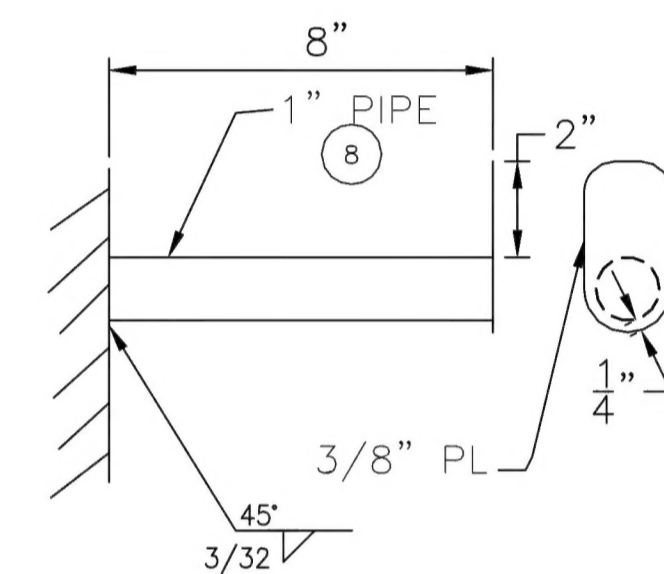
30-A



**DETAIL 28-A**

MAST LIGHT SECTION VIEW LKG AFT  
SCALE: 1/2 IN = 1 FT

30-A

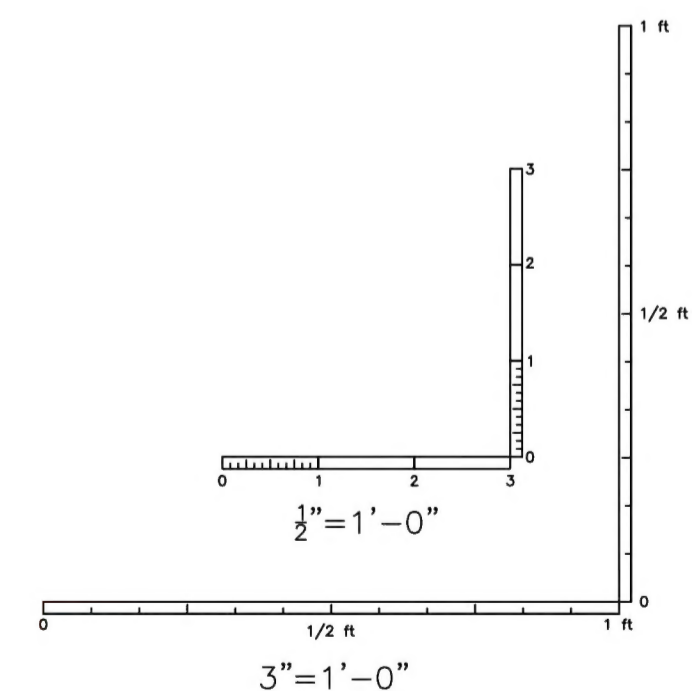


**DETAIL 25-C**

CLIMBING RUNGS  
SCALE: 3 IN = 1 FT



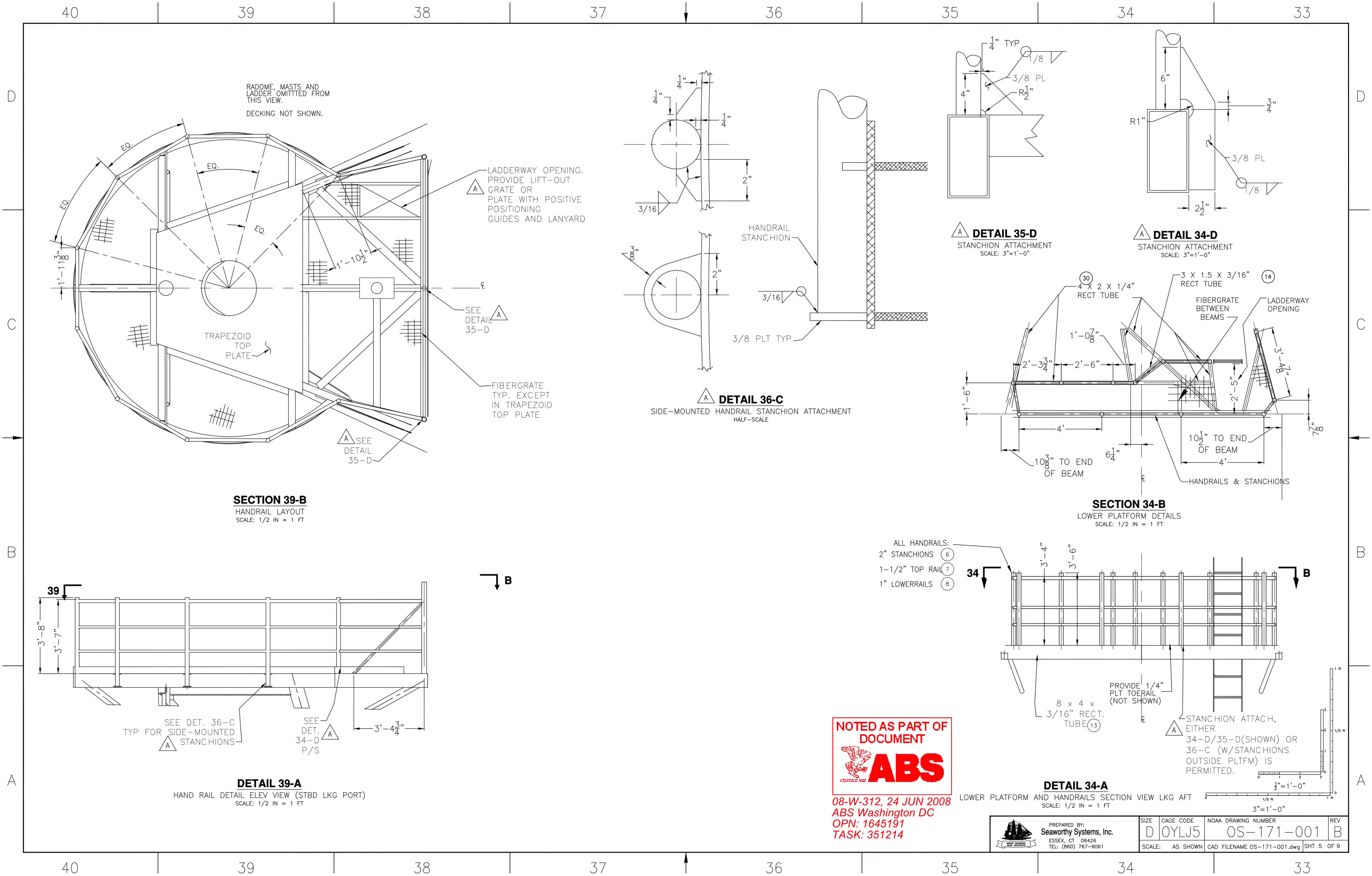
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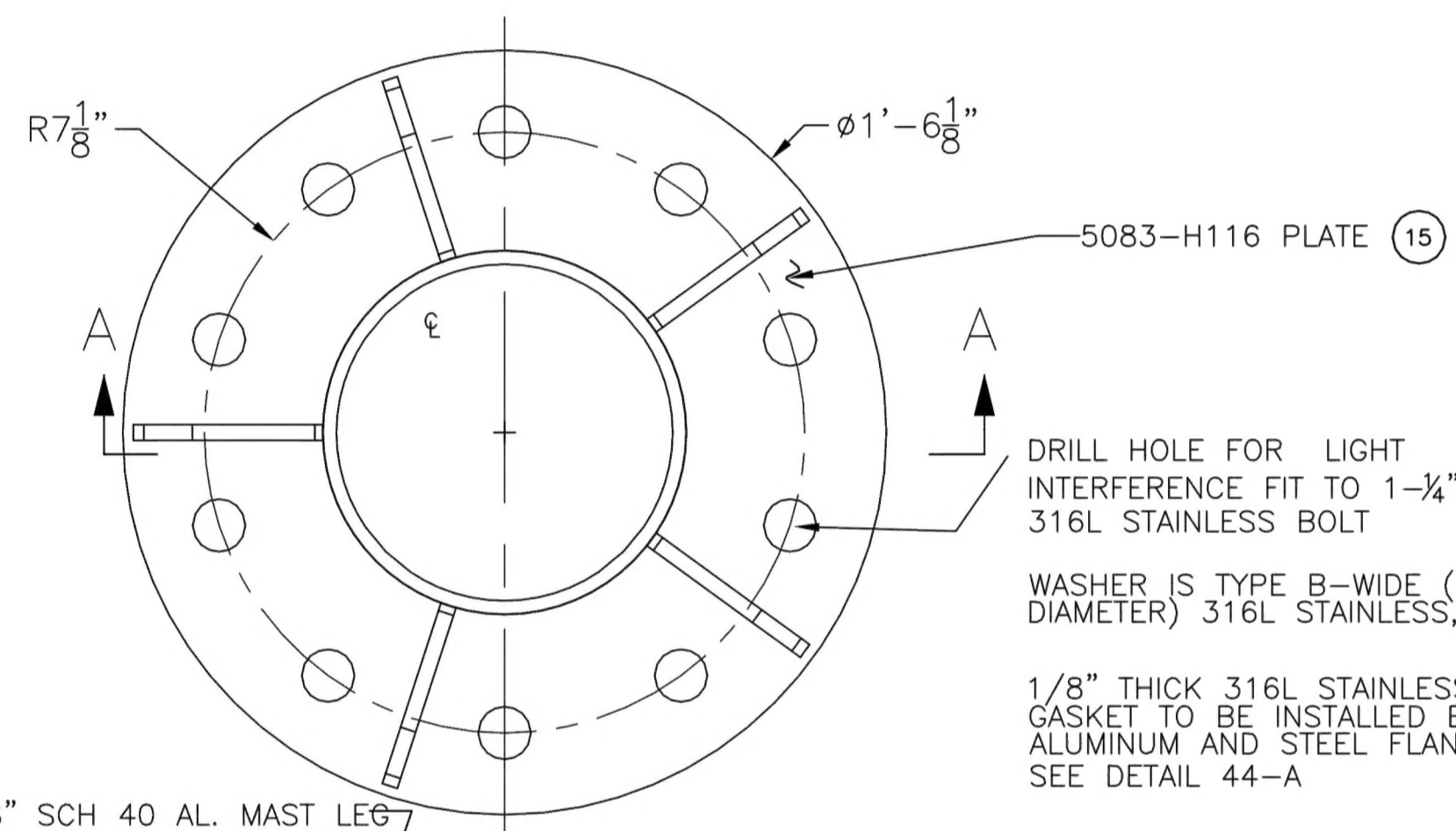
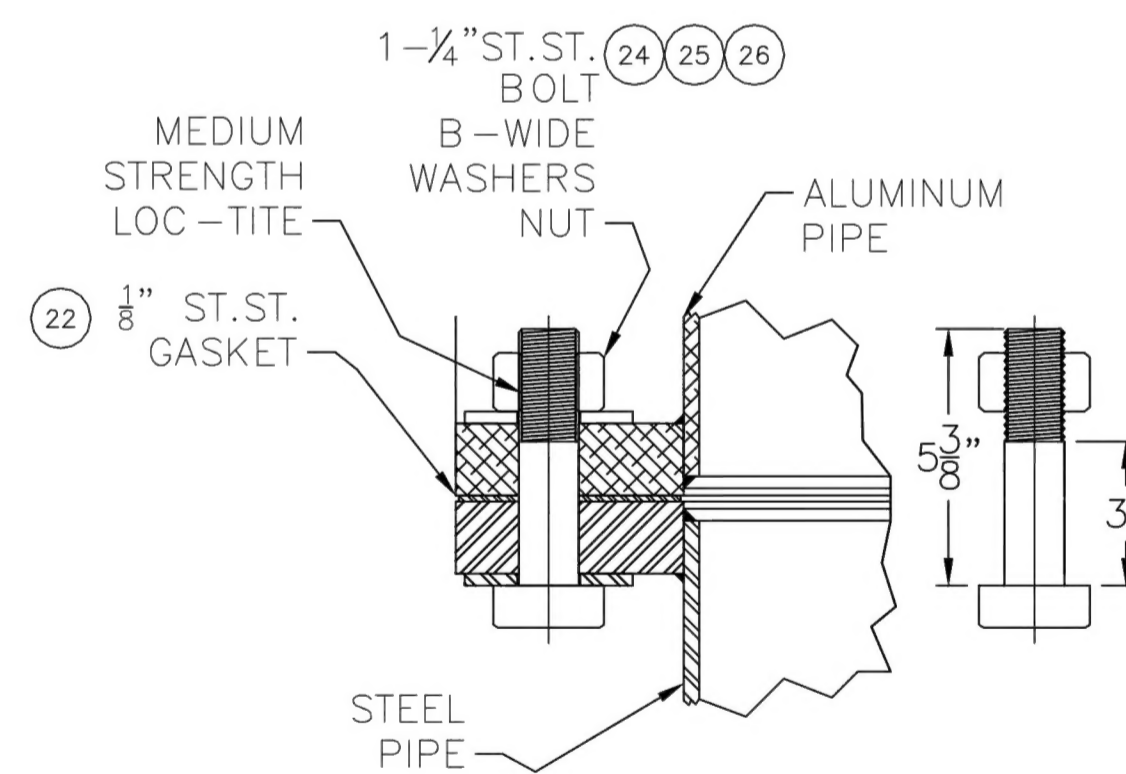
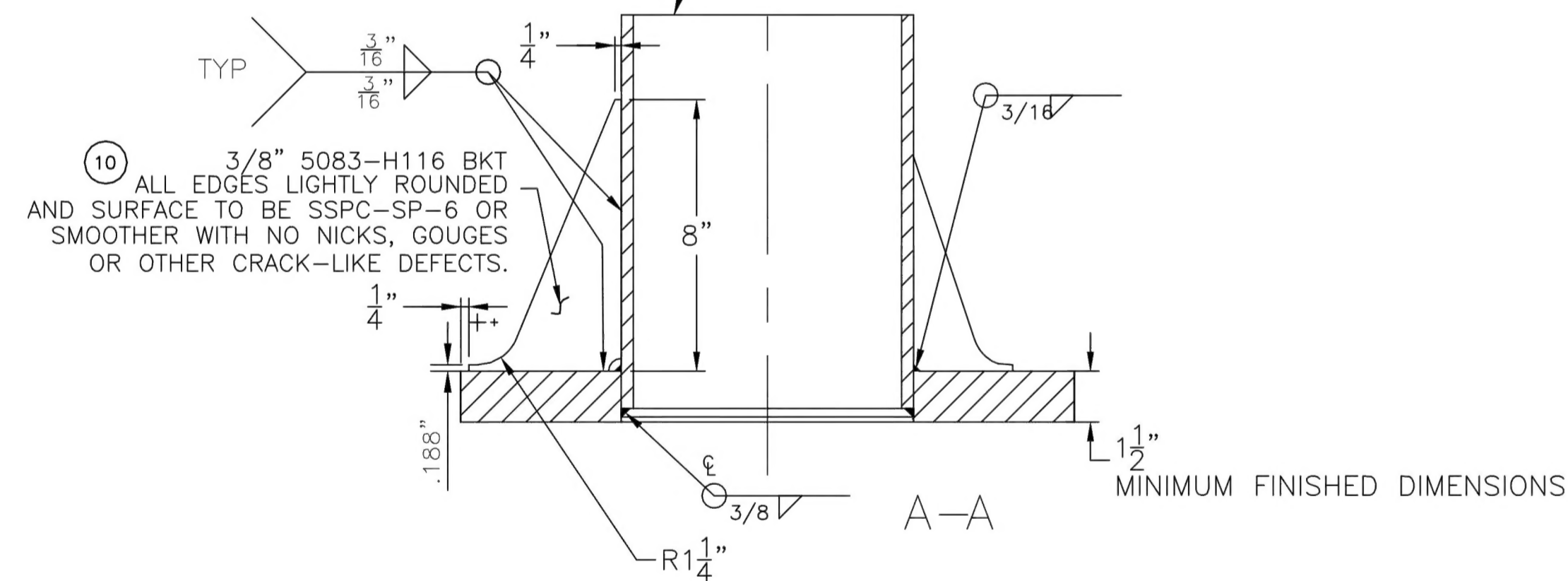
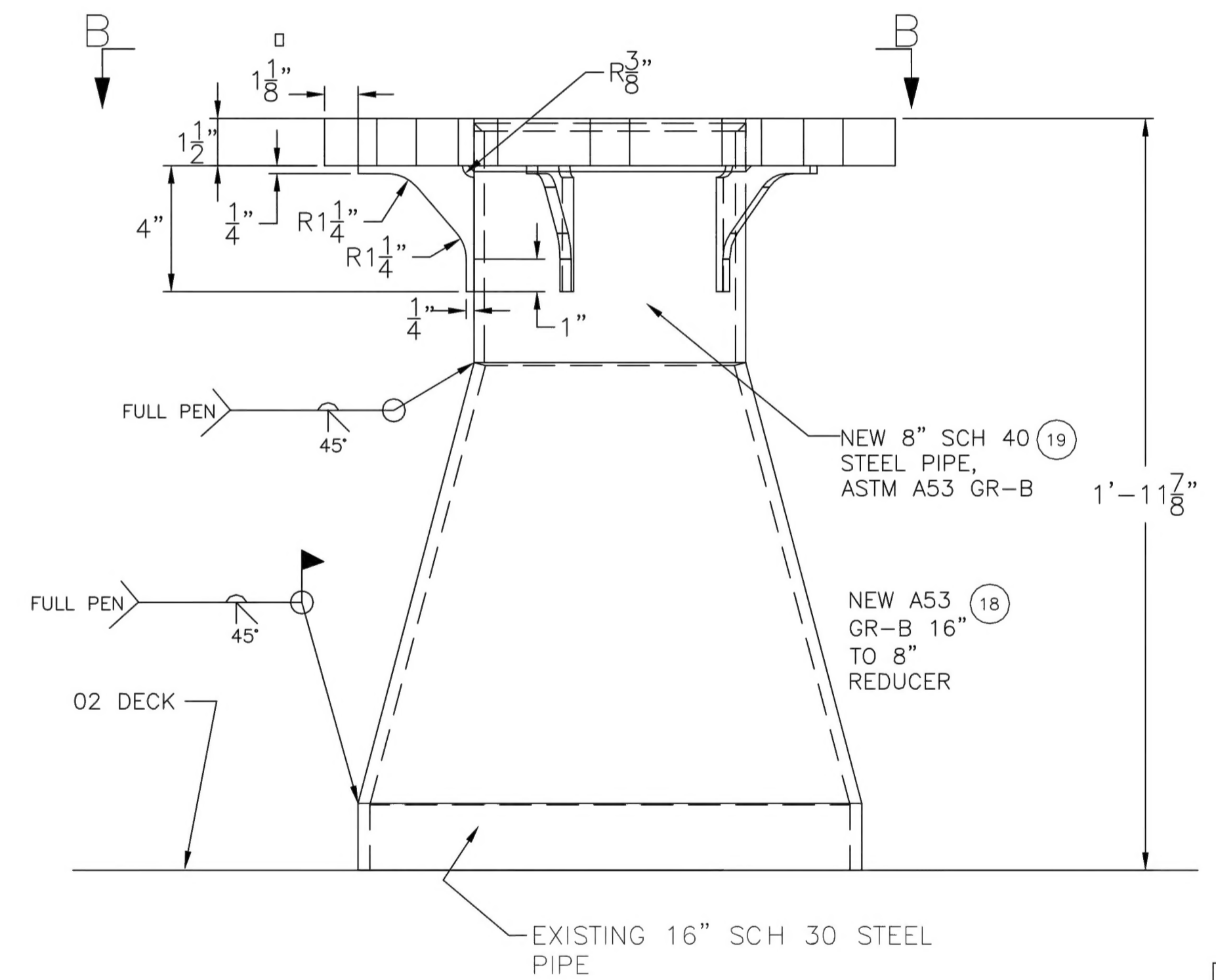
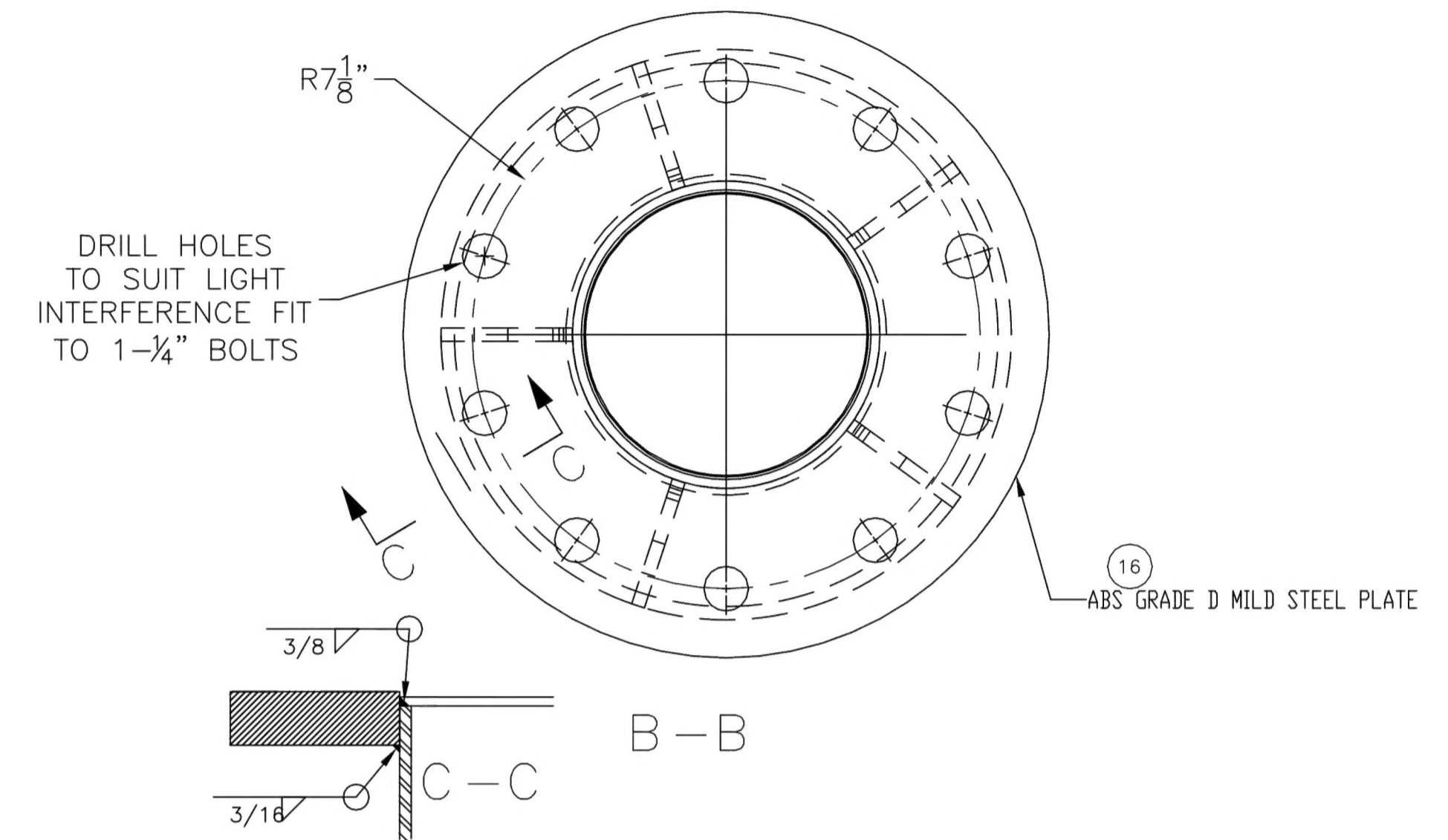
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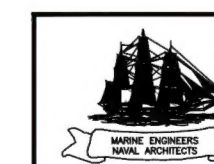
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**DETAIL 47-A**ALUMINUM FLANGE DETAIL  
SCALE: 3 IN = 1 FT**DETAIL 44-A**FLANGE BOLT DETAIL  
SCALE: 3 IN = 1 FT**DETAIL 42-A**AFT MAST DECK CONNECTION DETAIL  
SCALE: 3 IN = 1 FT

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SCALE:	AS SHOWN	CAD FILENAME OS-171-001.dwg	SHT 6 OF 9

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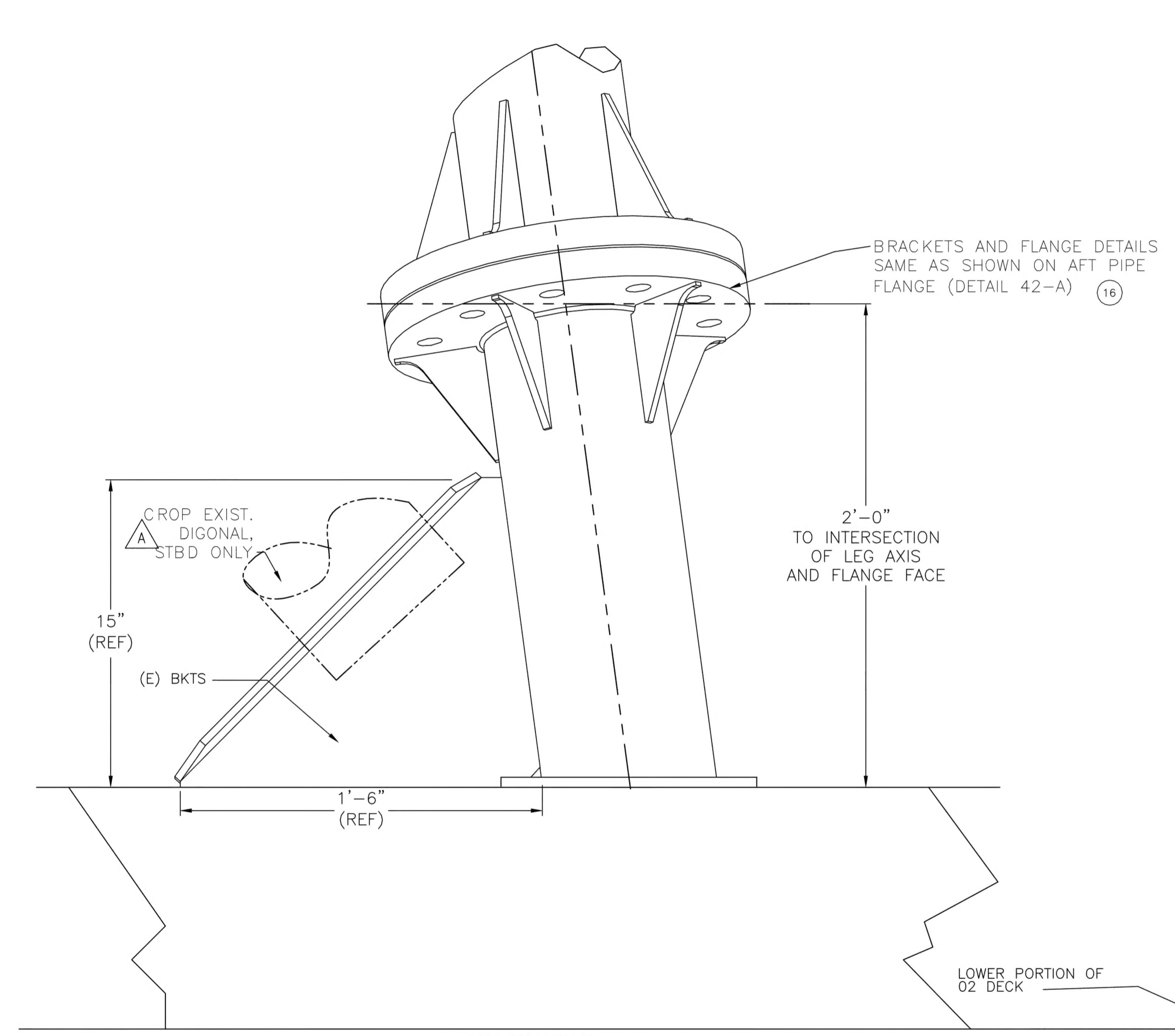
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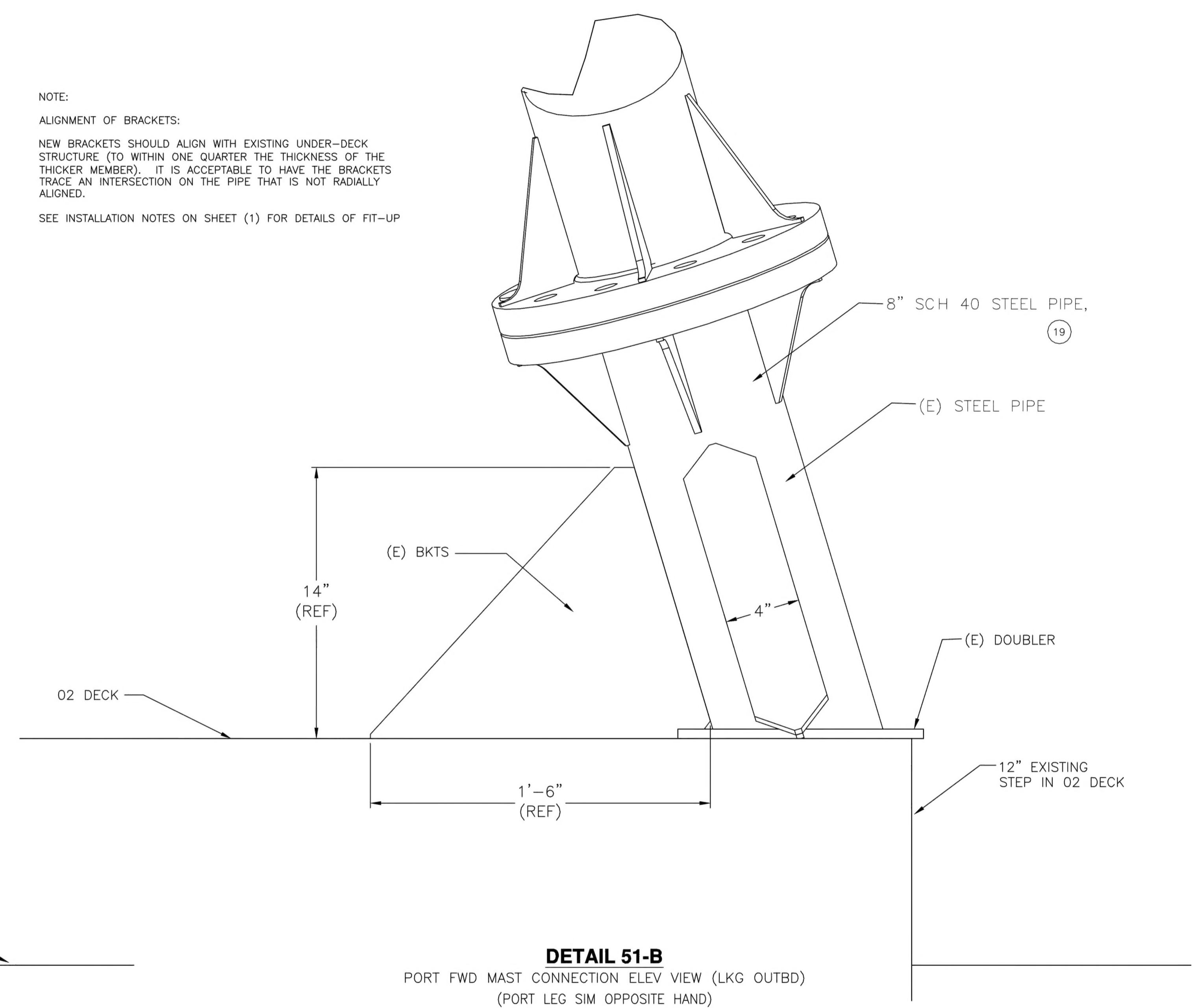
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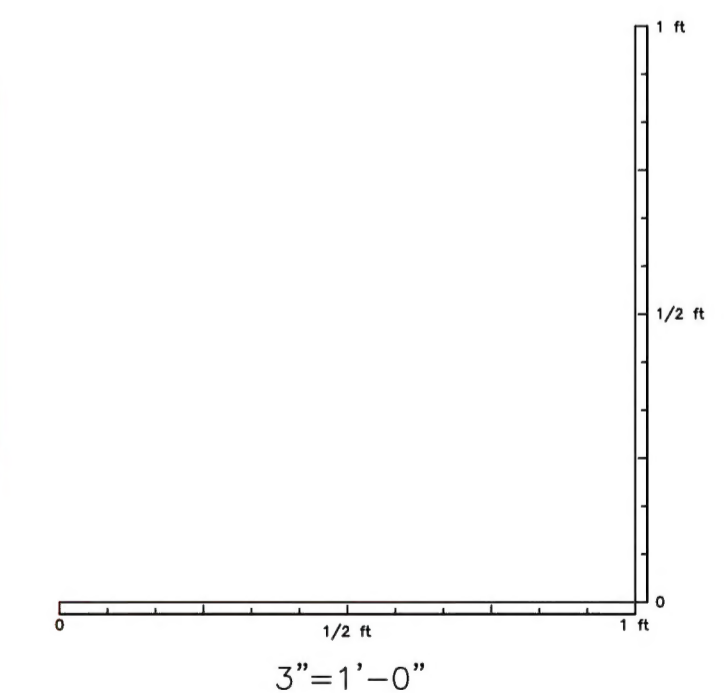
**DETAIL 55-B**  
FWD MAST DECK CONNECTION SECTION VIEW (LKG AFT)  
SCALE: 3 IN = 1 FT  
STBD SIMILAR TO OPPOSITE HAND

NOTE:  
ALIGNMENT OF BRACKETS:  
NEW BRACKETS SHOULD ALIGN WITH EXISTING UNDER-DECK STRUCTURE (TO WITHIN ONE QUARTER THE THICKNESS OF THE THICKER MEMBER). IT IS ACCEPTABLE TO HAVE THE BRACKETS TRACE AN INTERSECTION ON THE PIPE THAT IS NOT RADially ALIGNED.  
SEE INSTALLATION NOTES ON SHEET (1) FOR DETAILS OF FIT-UP

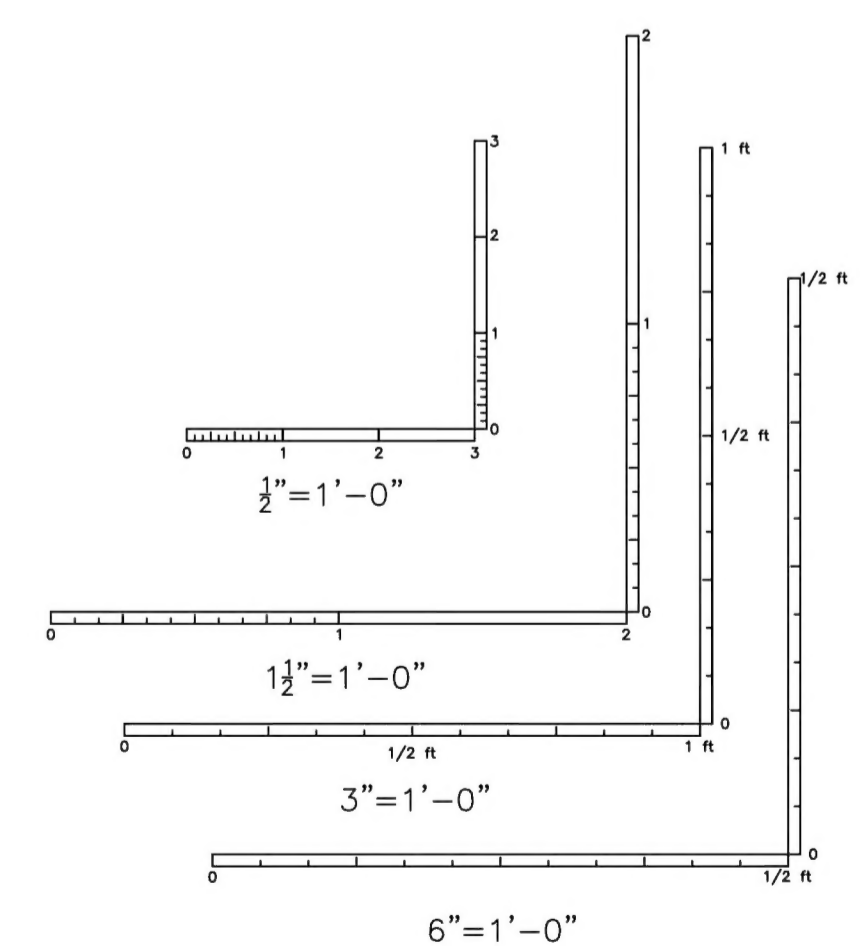
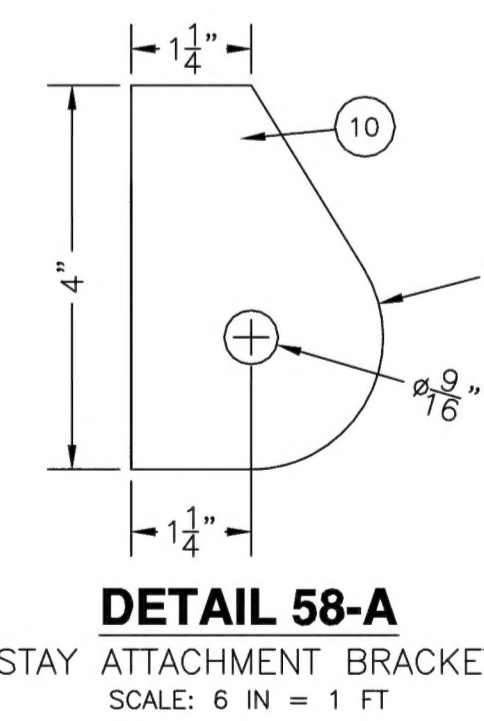
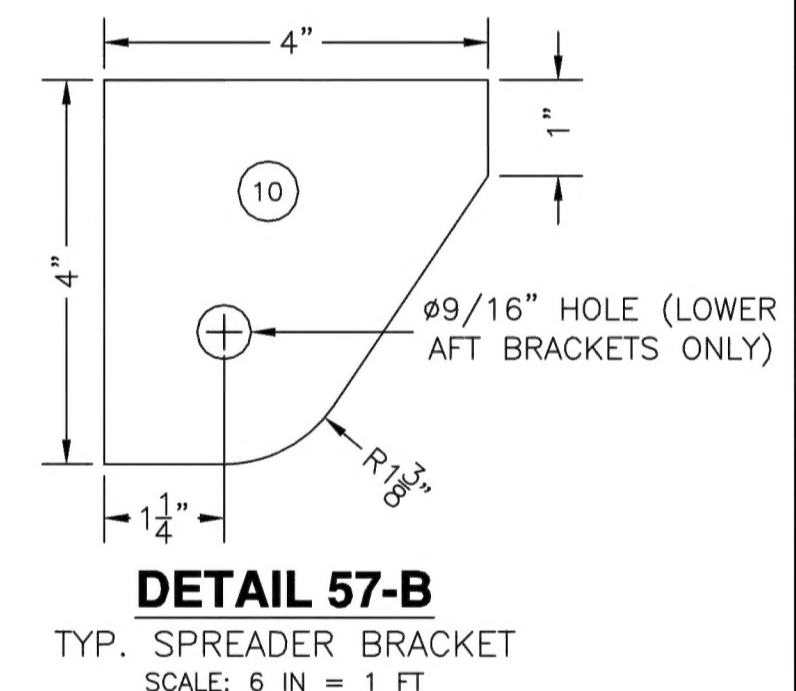
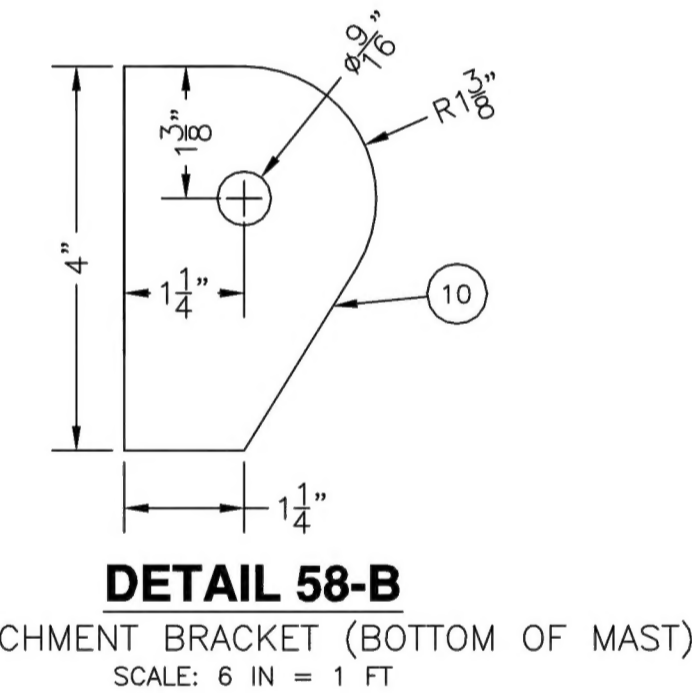
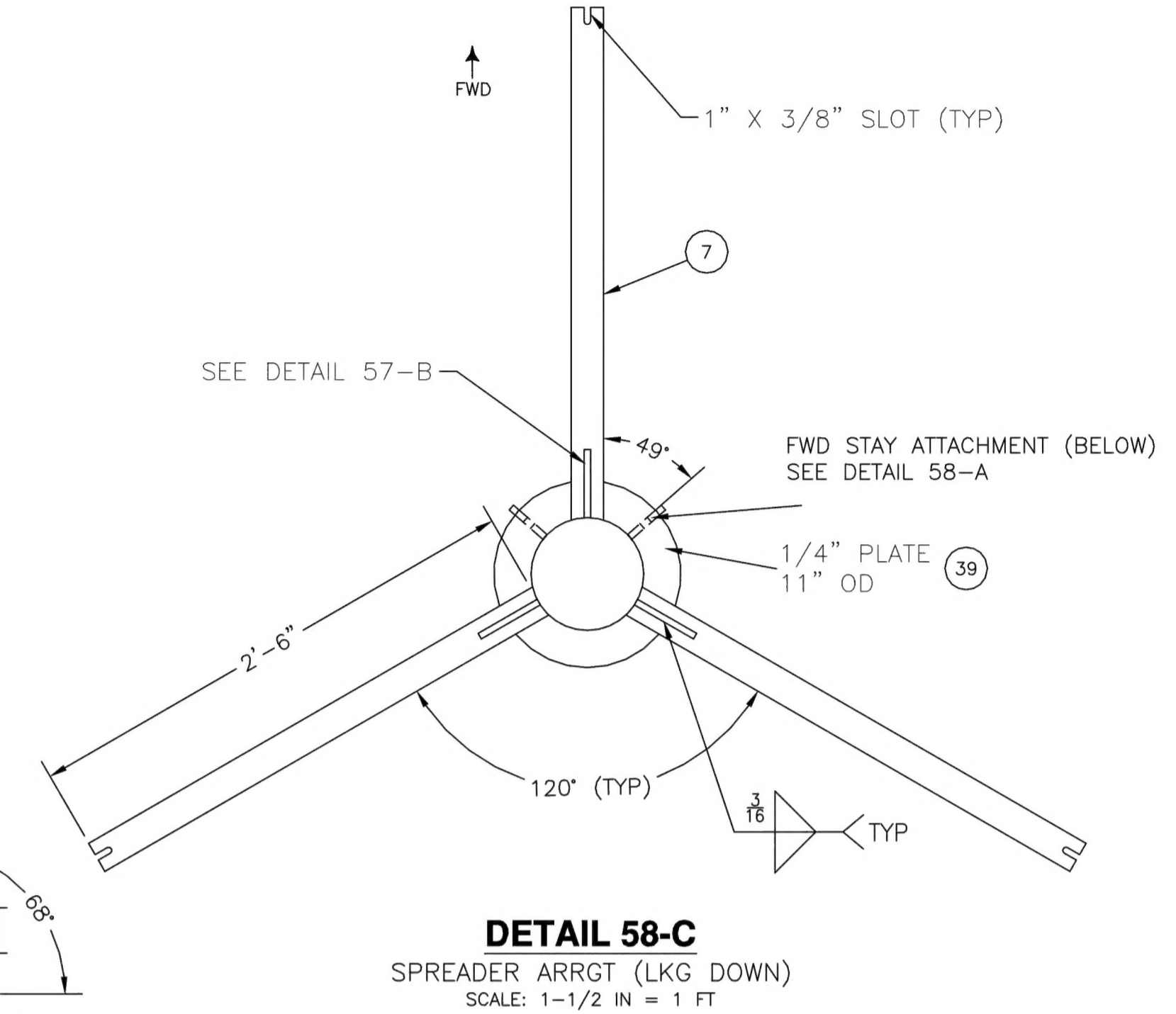
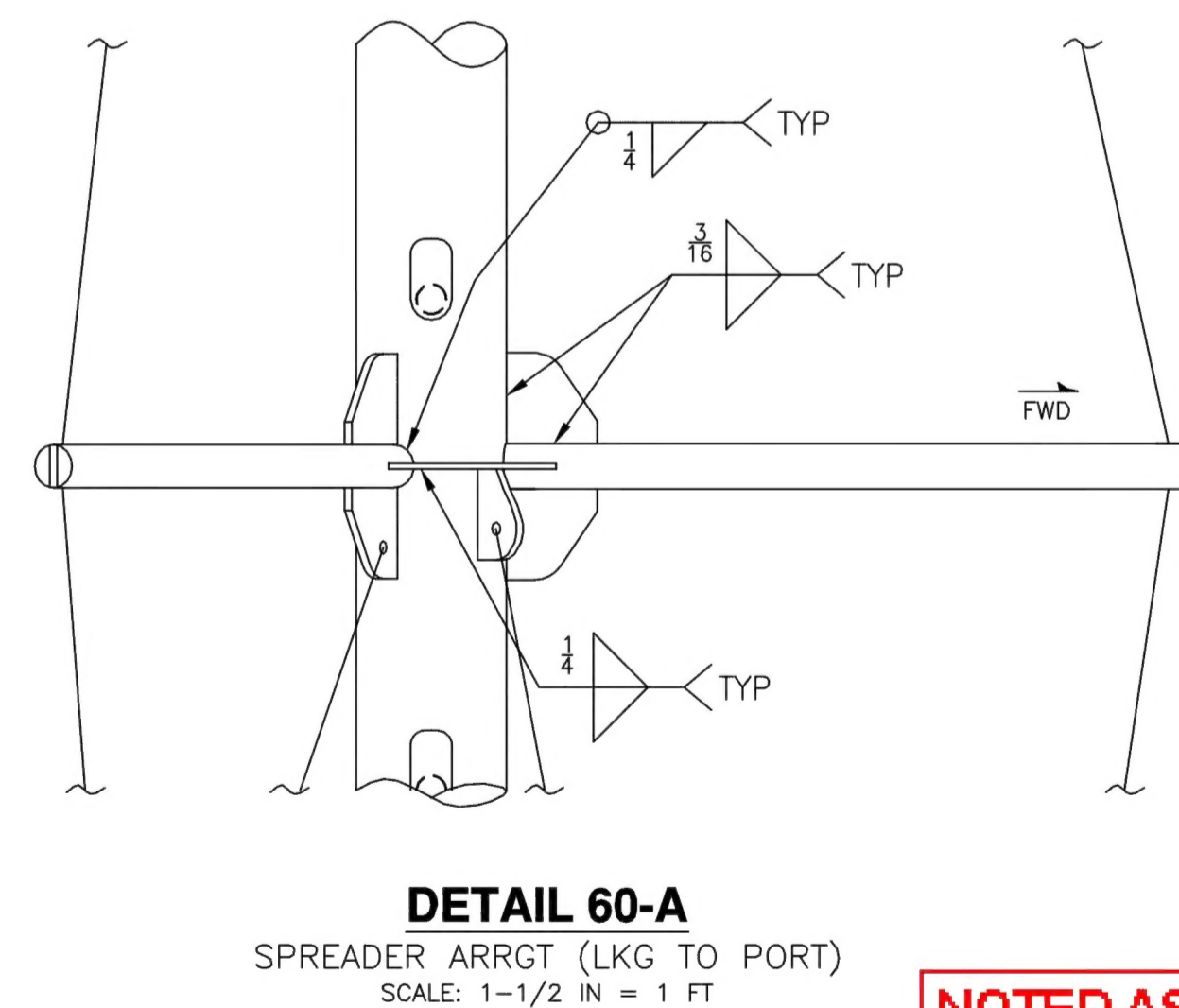
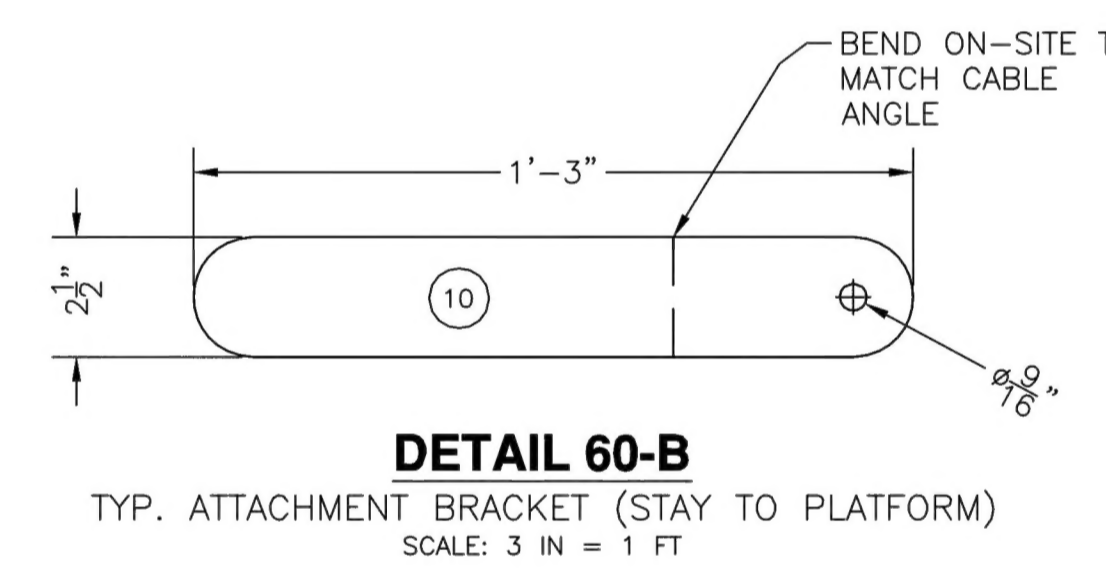
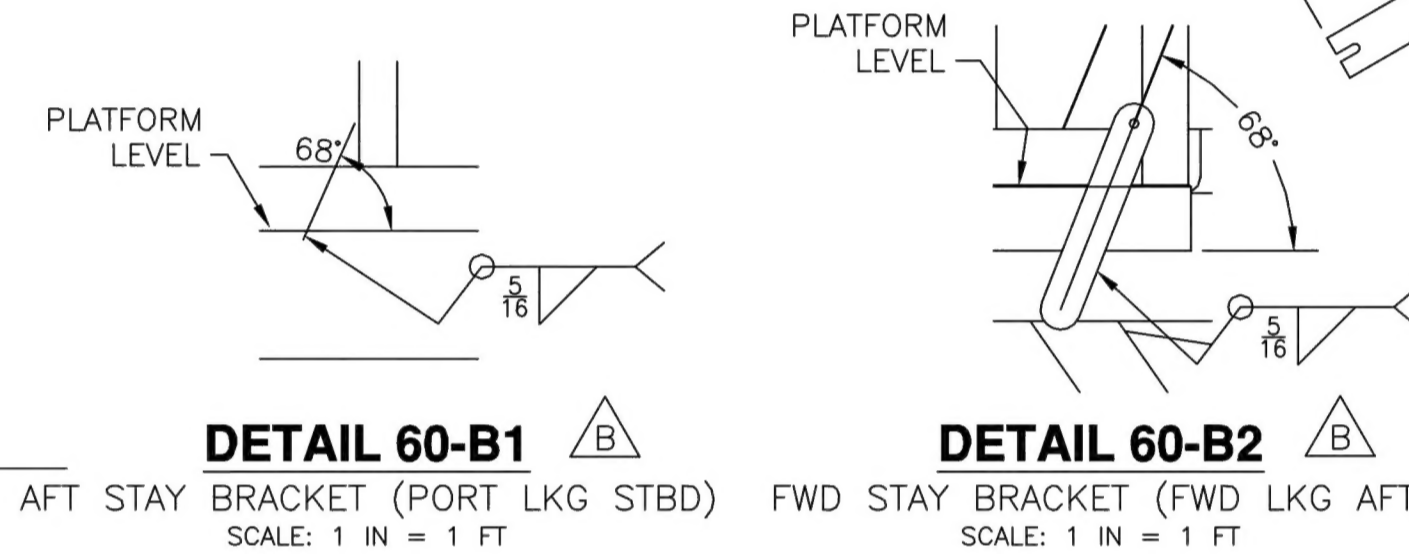
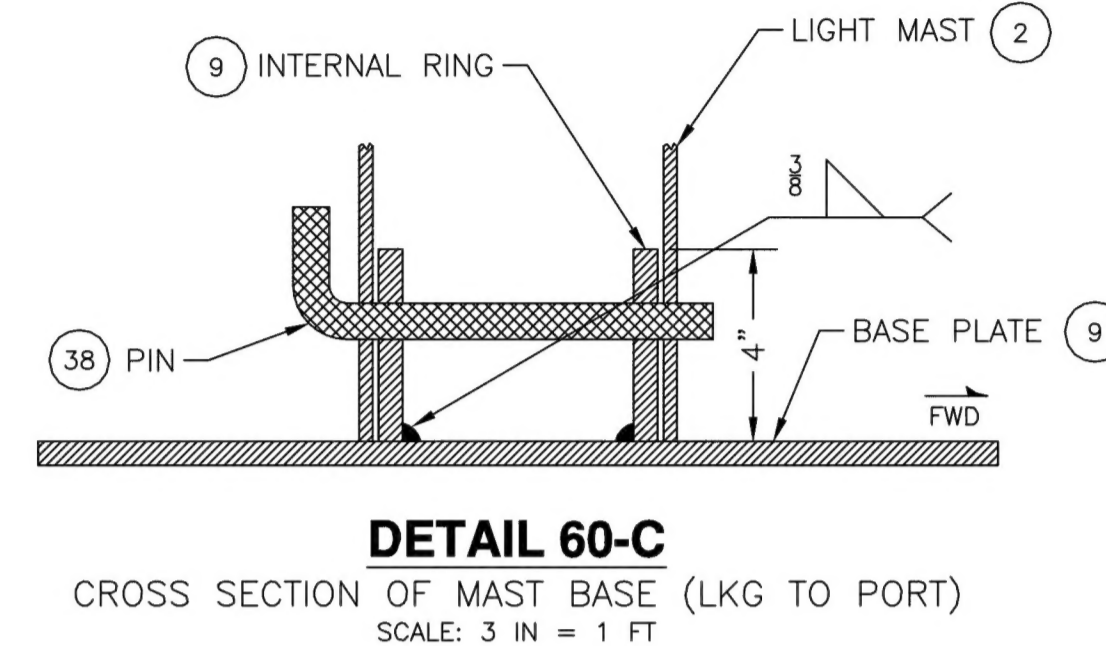
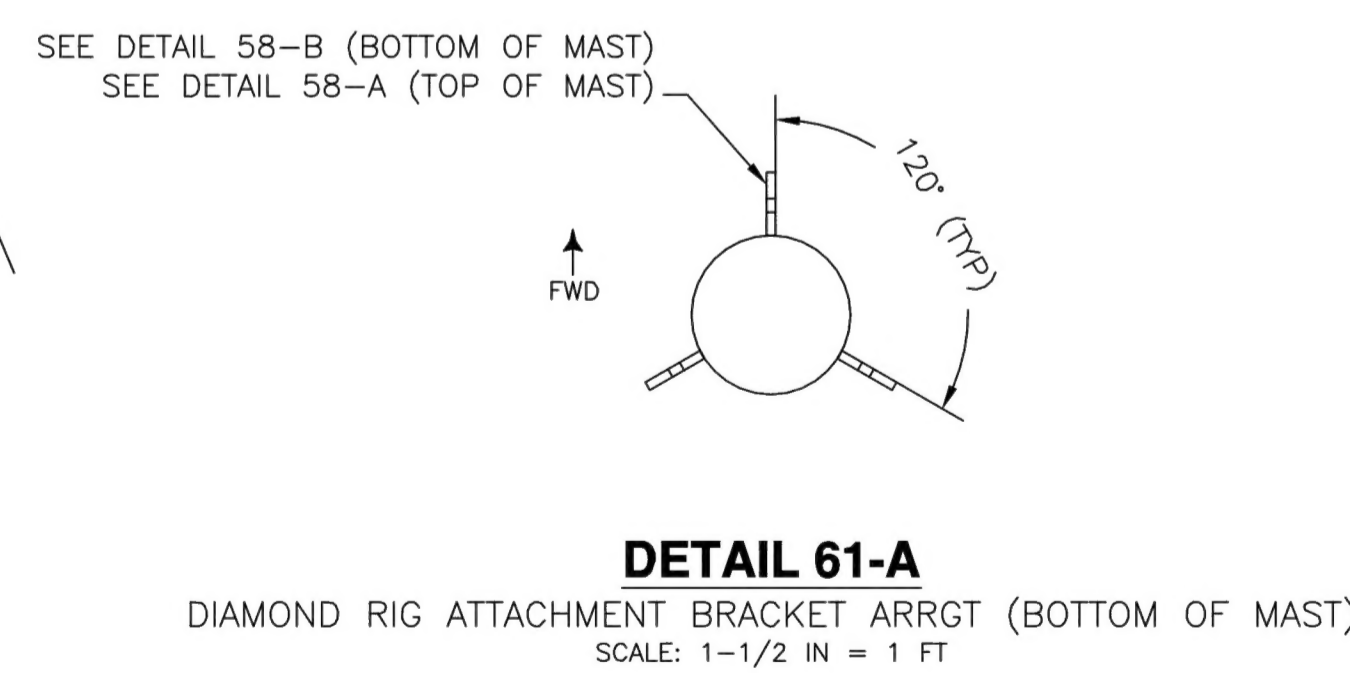
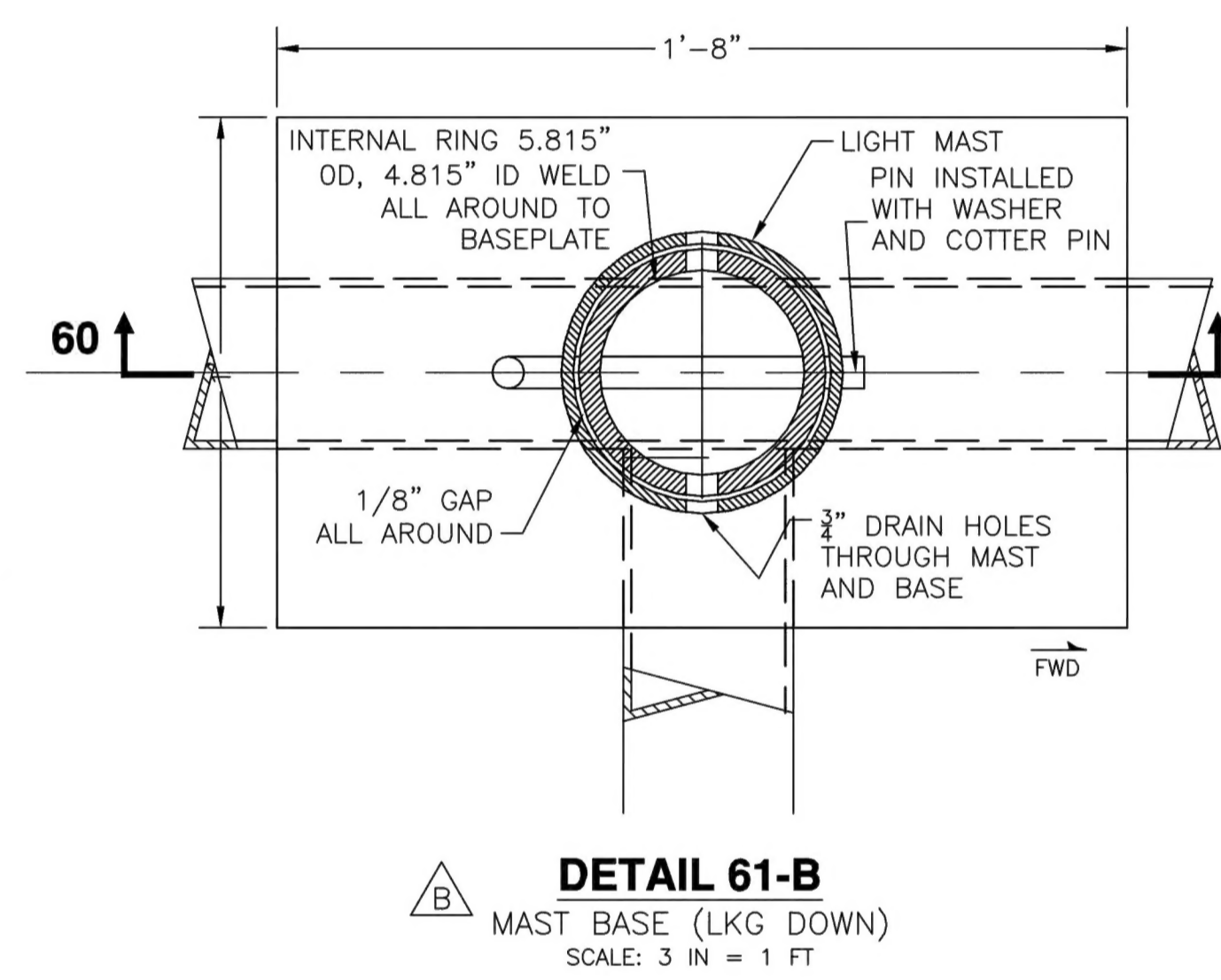
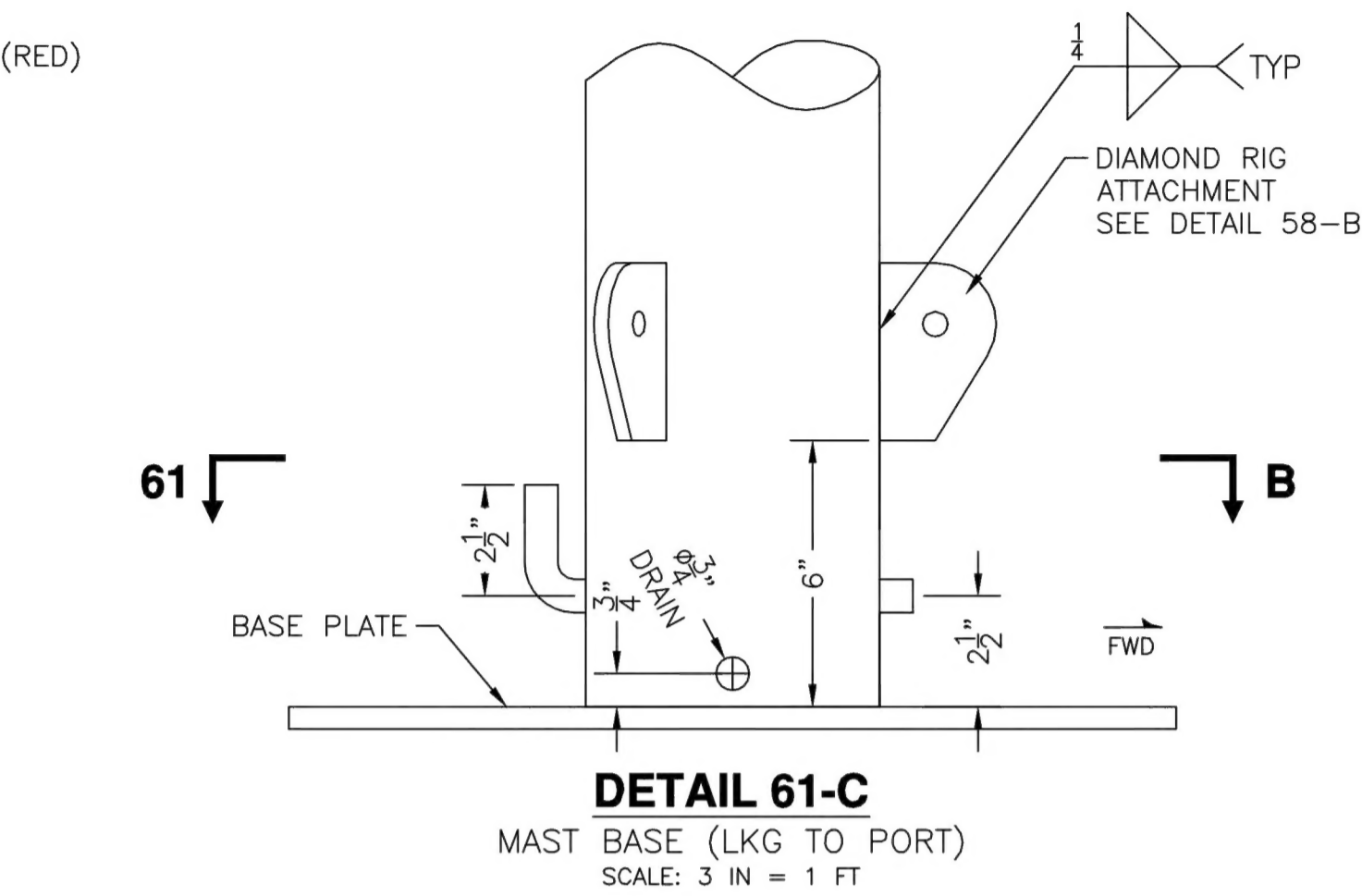
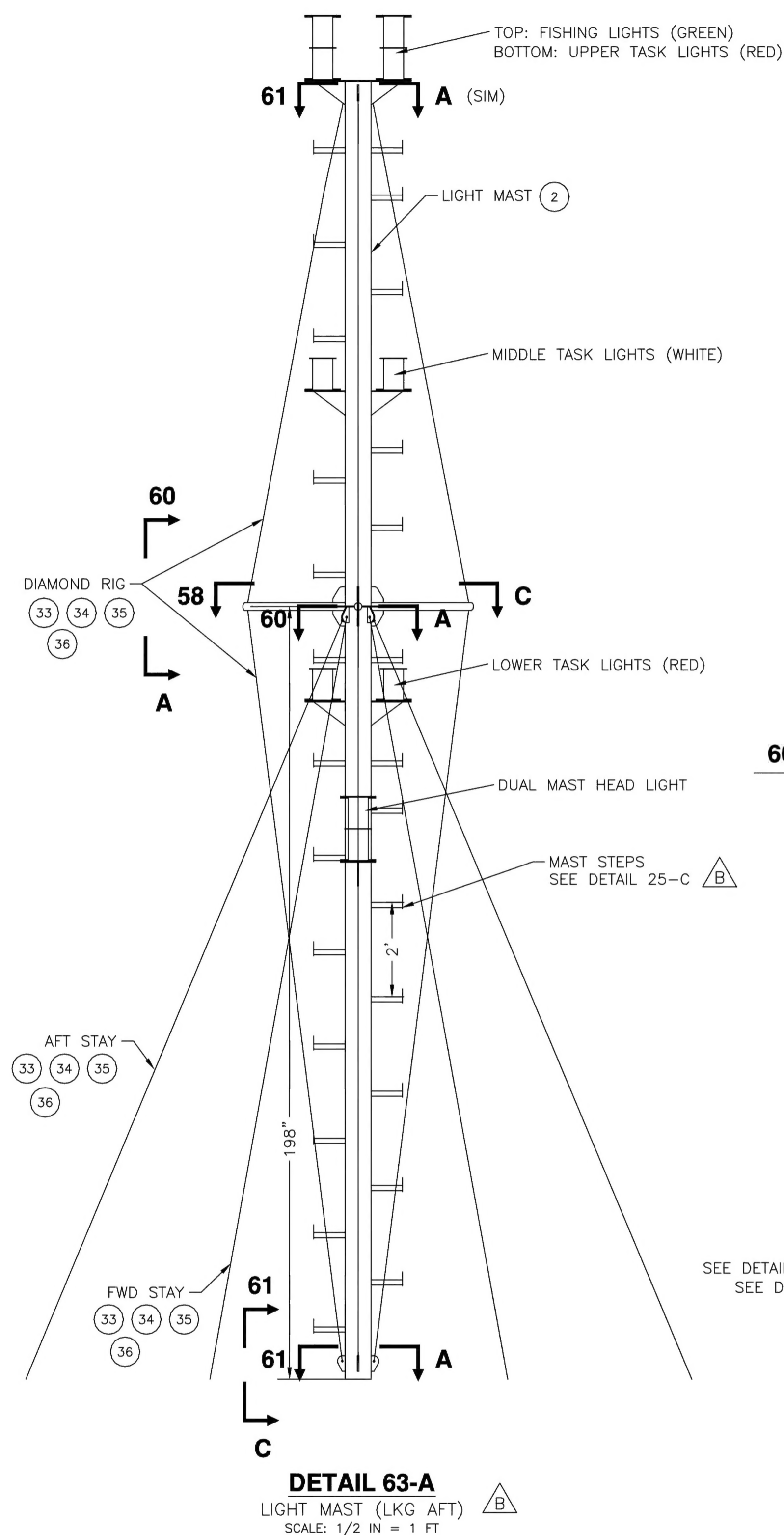


**DETAIL 51-B**  
PORT FWD MAST CONNECTION ELEV VIEW (LKG OUTBD)  
(PORT LEG SIM OPPOSITE HAND)  
SCALE: 3 IN = 1 FT  
STDB SIMILAR TO OPPOSITE HAND

NOTED AS PART OF  
DOCUMENT  
**ABS**  
08-W-312, 24 JUN 2008  
ABS Washington DC  
OPN: 1645191  
TASK: 351214



56 55 54 53 52 51 50 49



NOTED AS PART OF  
DOCUMENT

 **ABS**

COMBUSTION

08-W-312, 24 JUN 2008  
ABS Washington DC  
OPN: 1645191  
TASK: 351214

	PREPARED BY:	SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
	<b>Seaworthy Systems, Inc.</b> ESSEX, CT 06426 TEL: (860) 767-9061	D	OYLJ5	OS-171-001	B
		SCALE:	AS SHOWN	CAD FILENAME OS-171-001.dwg	SHT 8 OF 9

72

71

70

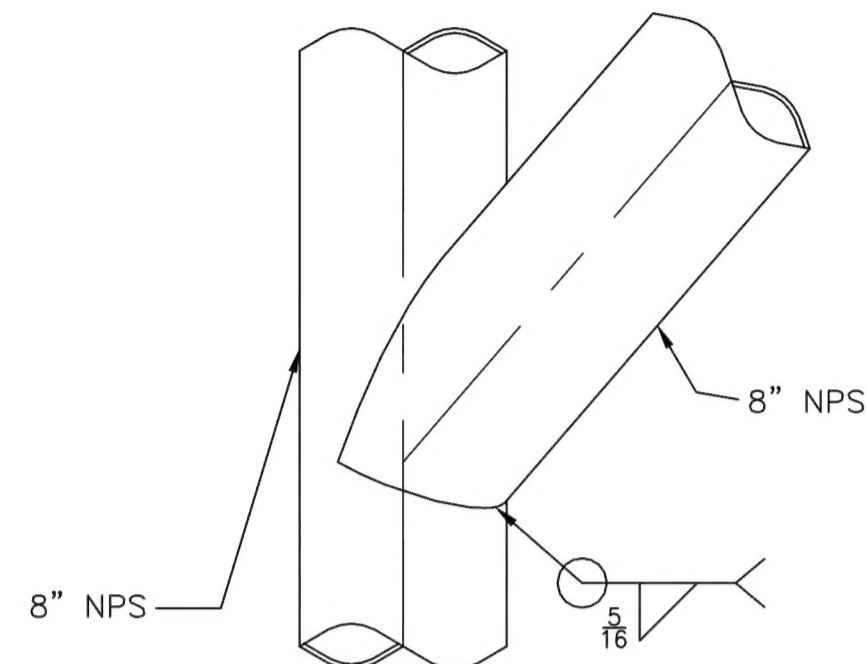
69

68

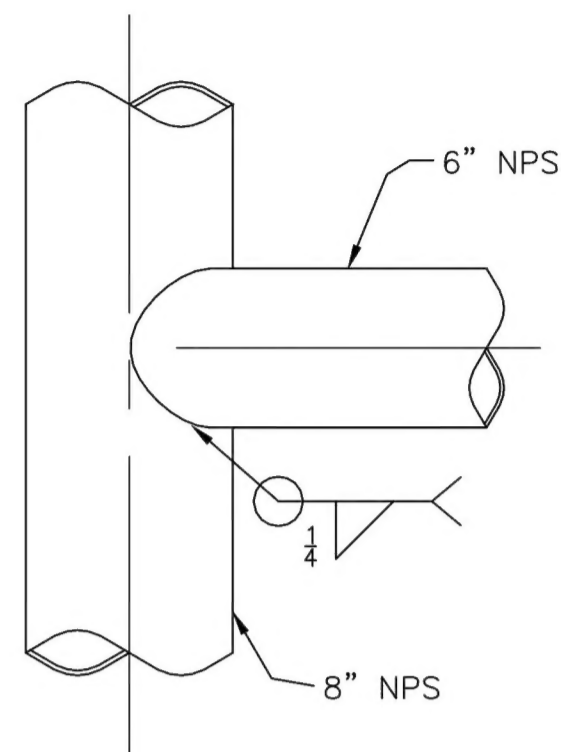
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66

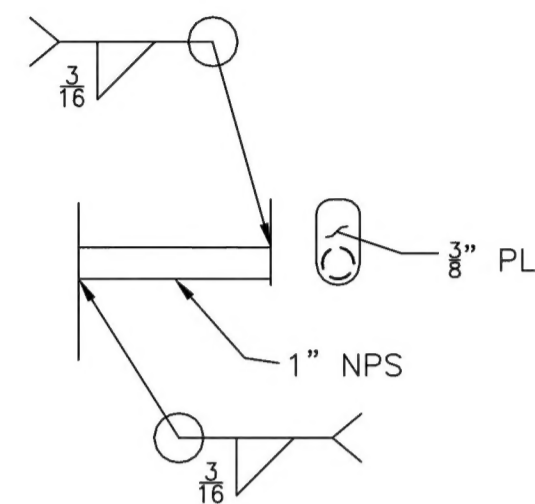
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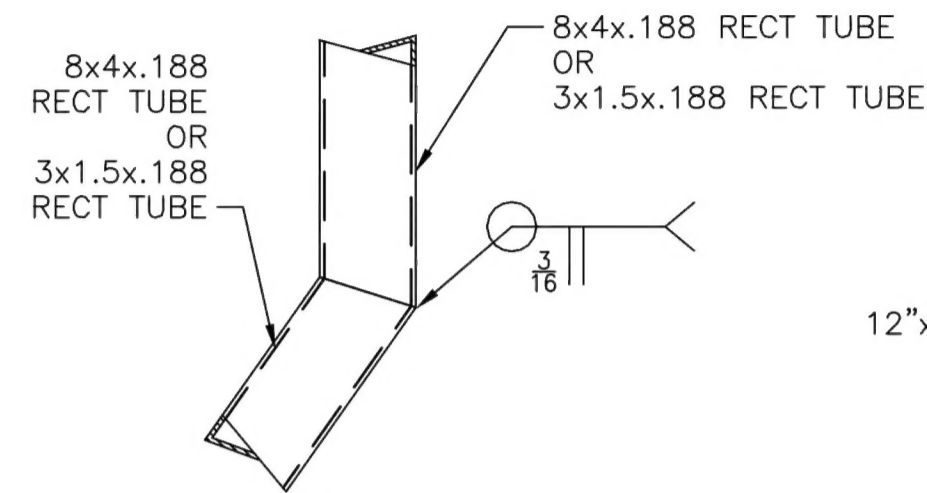
**DETAIL 71-C**  
TYPICAL 8" TO 8" PIPE  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



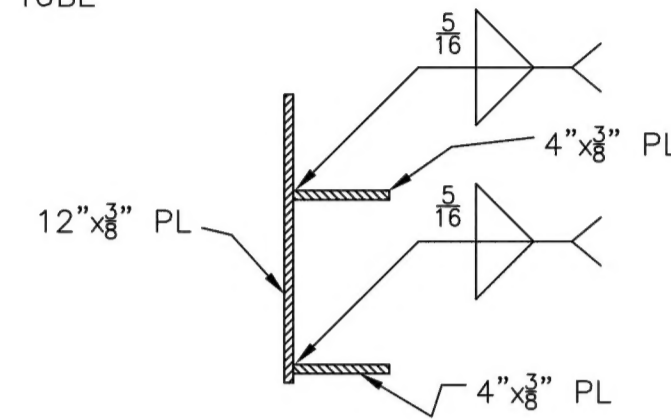
**DETAIL 70-C**  
TYPICAL 6" TO 8" PIPE  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



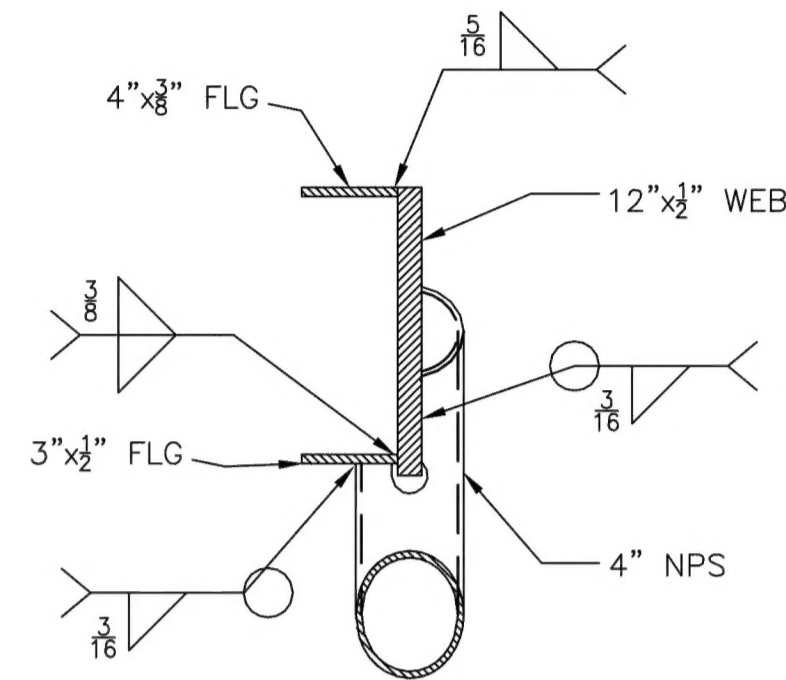
**DETAIL 69-C**  
TYPICAL CLIMBING RUNGS  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



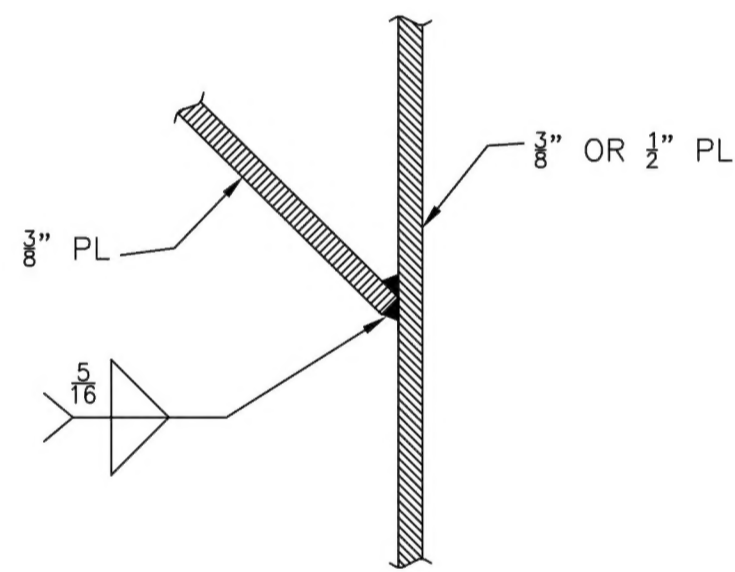
**DETAIL 68-C**  
TYPICAL RECT. TUBE MITER JOINT  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



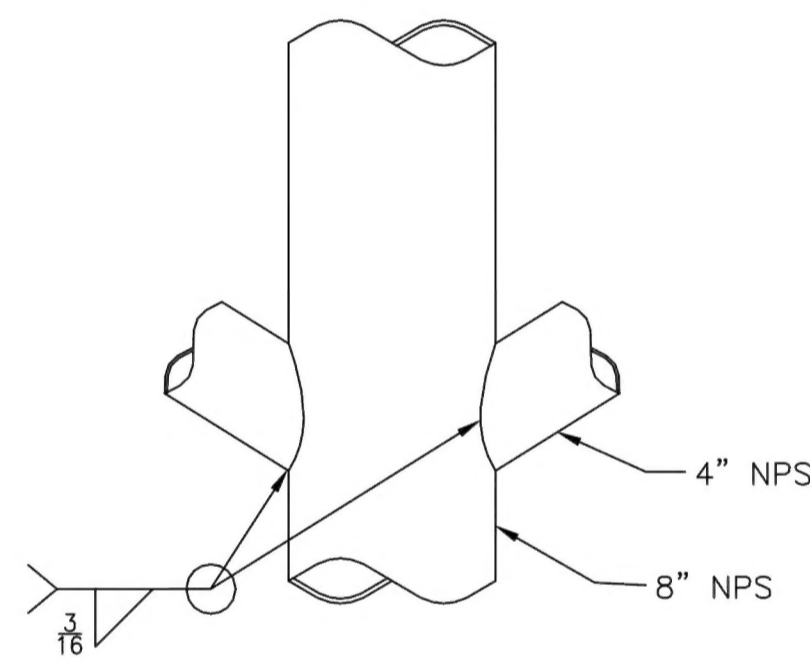
**DETAIL 67-C**  
TYPICAL RING FRAME  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



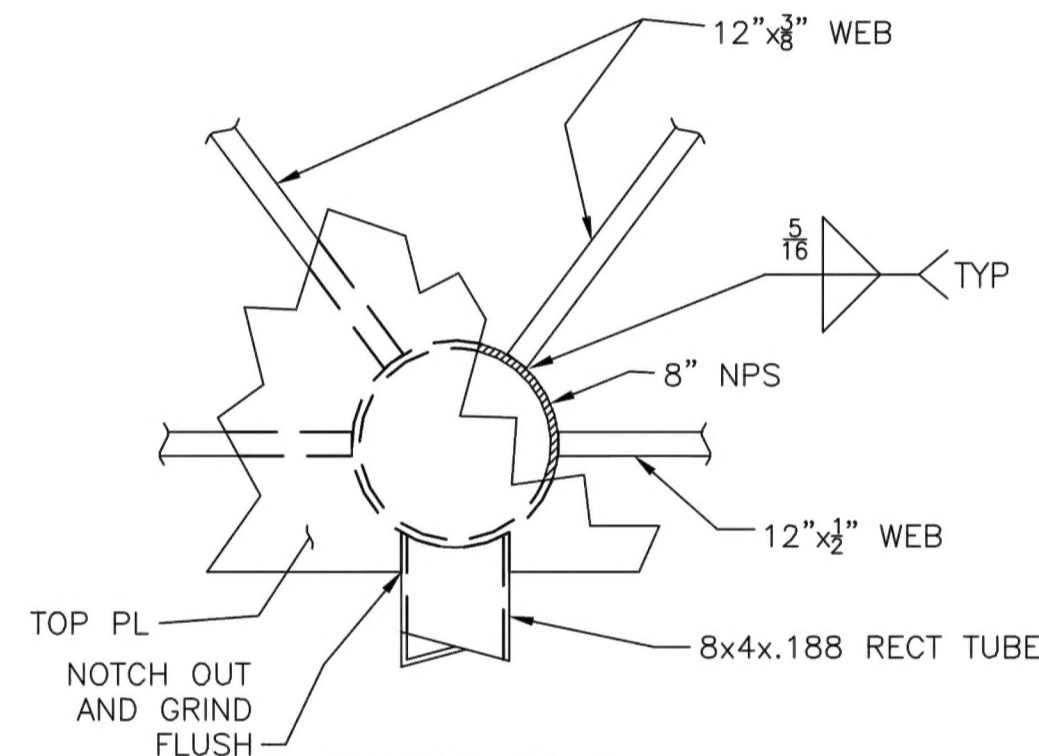
SEE ALSO  
SECTION 22-C  
**DETAIL 66-C**  
TYPICAL PIPE TO PLATE  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



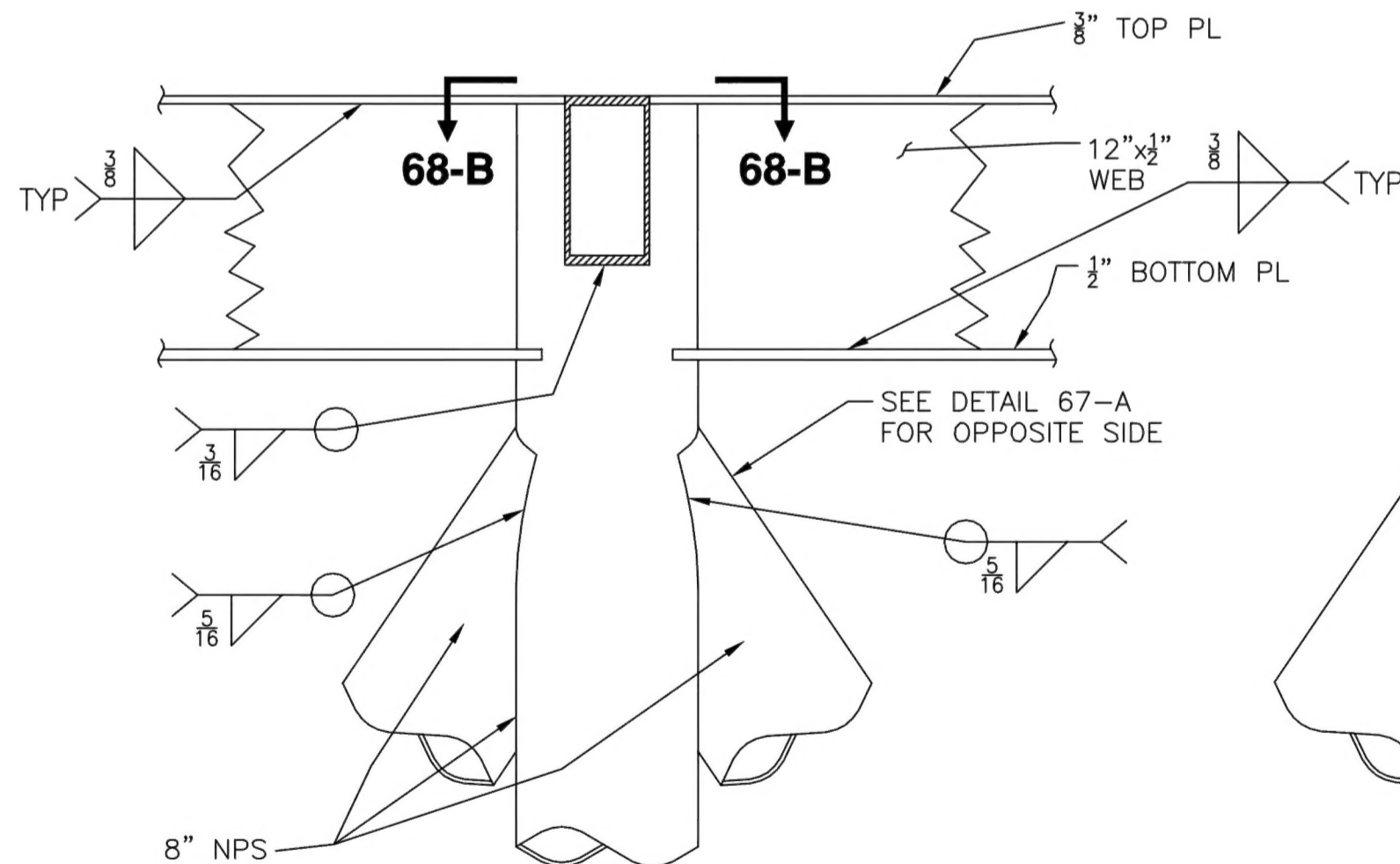
**DETAIL 71-B**  
TYPICAL PLATE TO PLATE  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



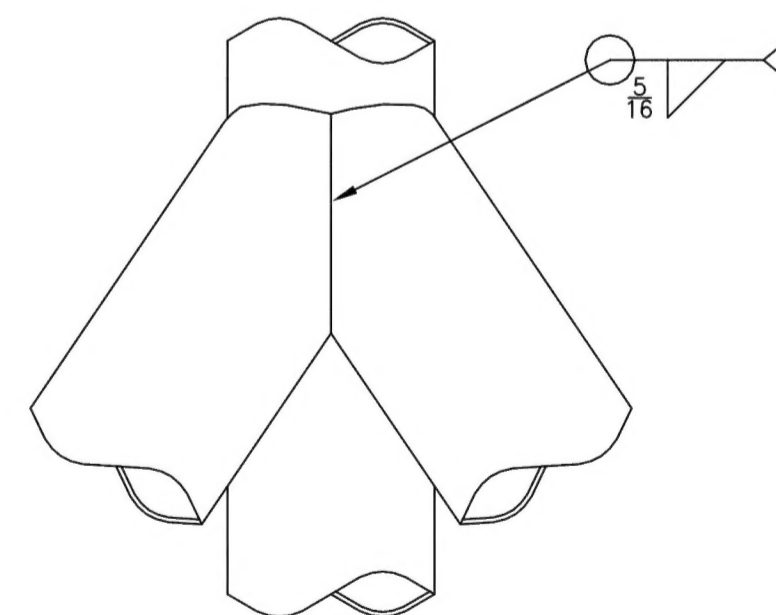
**DETAIL 70-B**  
TYPICAL SMALL PIPE TO LARGE PIPE  
WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



**DETAIL 68-B**  
PLAN VIEW OF PIPE TO PLATFORM  
SCALE: 1-1/2 IN = 1 FT



**DETAIL 68-A**  
TYPICAL LARGE PIPE TO UPPER  
PLATFORM WELDING DETAIL  
SCALE: 1-1/2 IN = 1 FT



**DETAIL 67-A**  
REVERSE SIDE OF DETAIL 60-A  
SCALE: 1-1/2 IN = 1 FT

WELDING NOTES:

1. REFER TO TABLES ON THIS SHEET FOR GUIDANCE ON WELD SIZES AND FILLER MATERIAL.

WELD SIZES	
LESSER THICKNESS OF MEMBERS JOINED	FILLET WELD LEG SIZE
< 1/4"	3/16"
1/4" - 5/16"	1/4"
5/16" - 3/8"	5/16"
3/8" - 7/16"	3/8"
7/16" - 1/2"	3/8"

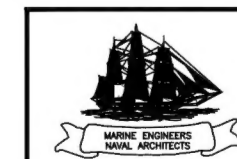
FILLER MATERIAL	
MATERIAL	FILLER
5083 TO 5083	5183
5083 TO 6061	5356
6061 TO 6061	5183 OR 4043

SCHEDULE 40 PIPE SIZES		
NOM.	O.D.	WALL THICKNESS
1"	1.315"	.133"
1-1/2"	1.900"	.145"
2"	2.375"	.154"
2-1/2"	2.875"	.203"
3"	3.500"	.216"
4"	4.500"	.237"
6"	6.625"	.280"
8"	8.625"	.322"



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1 1/2" = 1'-0"



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ESSEX, CT 06426  
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